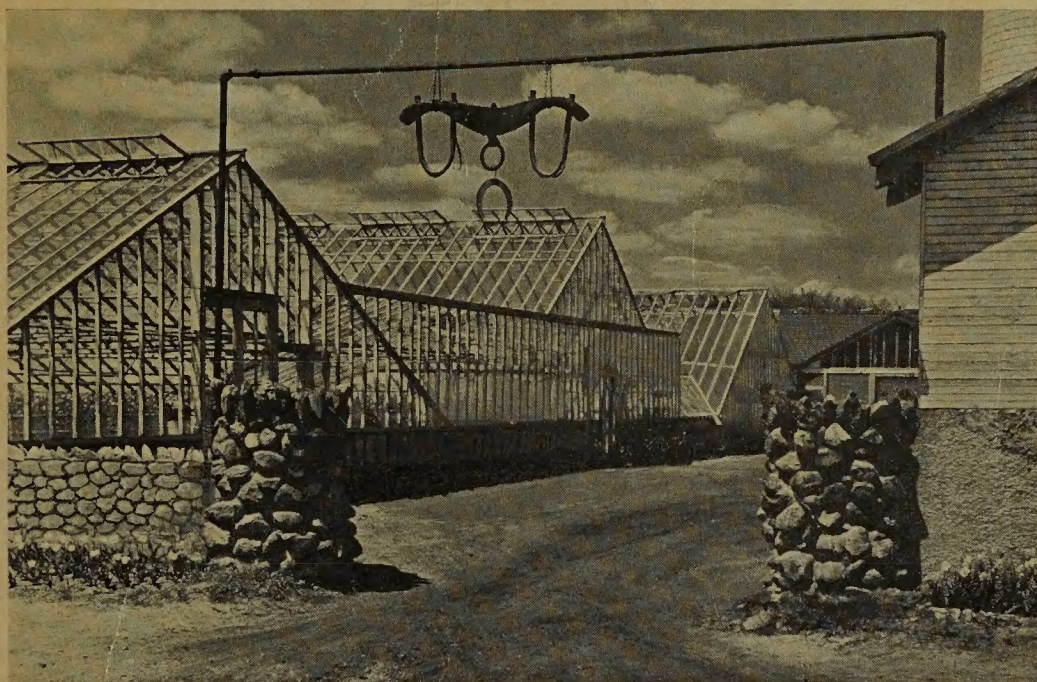


Greenhouses



STEARNS
ESTABLISHED—1849
DESIGNERS—MANUFACTURERS—BUILDERS
NEPONSET
MASS

Foreword

Distinction in Greenhouses depends on good taste, quality of materials and workmanship.

Our policy is backed by 90 years of greenhouse designing and building experience, giving advice and cooperation at every step of the work.

Determined to put into every detail the best materials, workmanship and all the quality necessary to insure the most profit to the customer and to eliminate unnecessary features that may add to the cost.

We can tell you of countless examples as to the lasting qualities of our Clear Heart California Redwood and Gulf Red Cypress to stand up under the severe tests of the damp and moist conditions which prevail in every greenhouse.

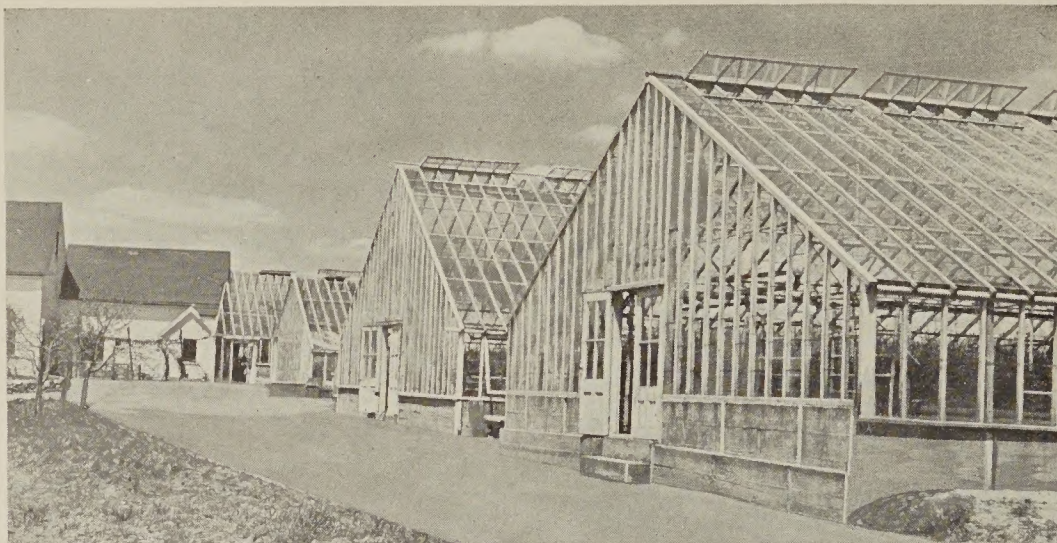
Every possible corner of all wood members has been rounded off in order to make the paint flow evenly and smoothly thereby making the paint last longer and giving a real finish to the completed job.

We shall be pleased to submit sketches and estimates for not only the standard type of Greenhouses, but also for all types of glass enclosures for biological and horticultural departments of schools and colleges, as well as for sludge drying and filter beds, swimming pools, tennis courts, public conservatories, solariums.

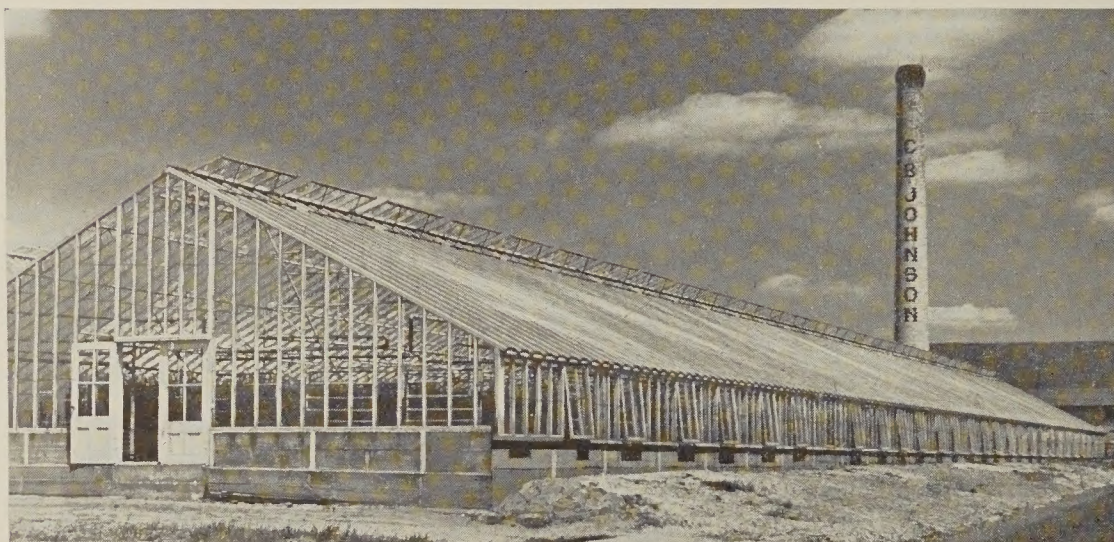
"A NEW ENGLAND PRODUCT"

THE A. T. STEARNS LUMBER CO.

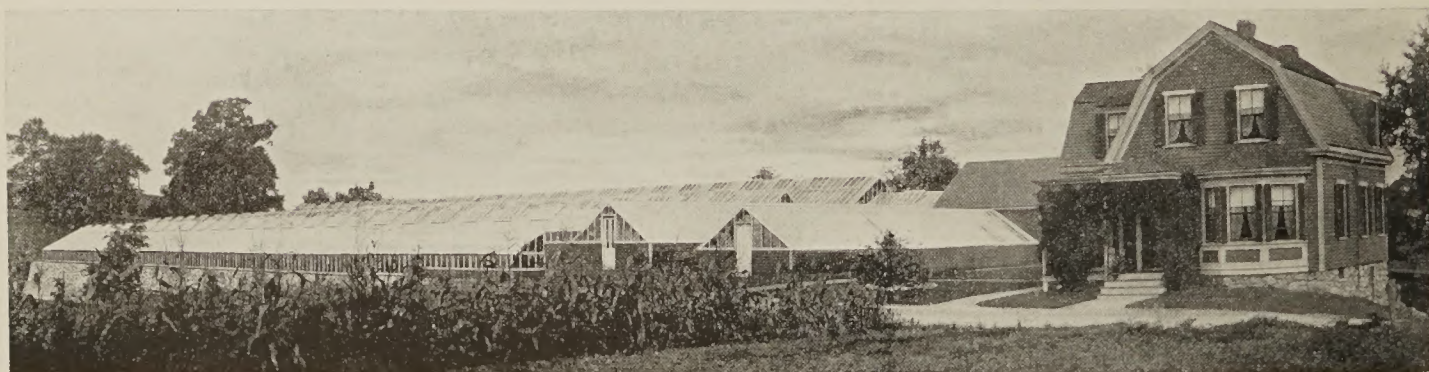
Neponset, Boston, Mass.



Four houses erected for a prominent florist in Massachusetts.
Average size of houses 35' 0" x 200' 0"



Greenhouse erected for a well-known florist in the city of Woburn, Mass.
Size of house 35' 0" x 250' 0"



View of Greenhouse, Natick, Mass.



HENRY J. WOLLRATH
LEXINGTON

GREENHOUSES
RED SPARK
LEXINGTON, MASS.
TEL. LEX. 1100

ERNEST WOLLRATH
WALTHAM

Wollrath & Sons, Inc.
FLORISTS
POTTED PLANTS OUR SPECIALTY
WALTHAM, MASS.

ALBERT J. WOLLRATH
WALTHAM

OFFICE AND GREENHOUSES
139 DEANE ST.
WALTHAM, MASS.
TEL. WAL. 0900

Nov. 17, 1930.

The A. T. Stearns Lumber Co.
Napaonset, Mass.

Gentlemen:

"At the request of your representative, we are very glad to write you our opinion regarding your greenhouses and greenhouse supplies. The best thing that we can say is that one house has been up thirty years with no attention except painting. We have altogether ten of Stearns' houses, approximately 35,000 to 40,000 square feet under glass. They are from thirty to sixty years old. We have another house of yours which has been in constant use from sixty to sixty-five years. It is still giving good service. These houses built of your materials speak for themselves as to quality and durability.

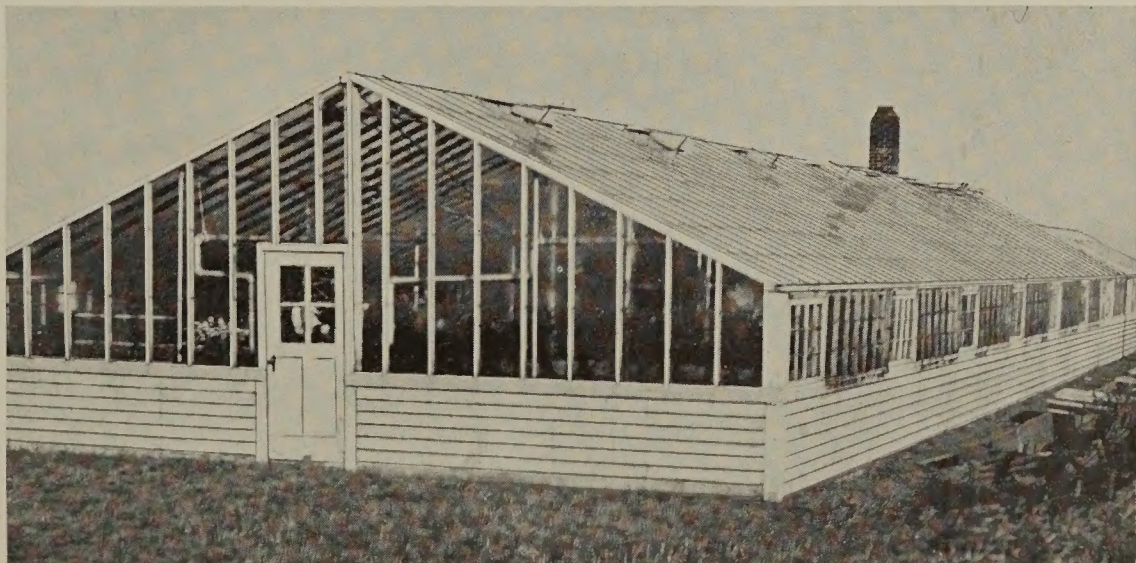
All materials purchased from you, such as; bench stock, hardware, putty and your special greenhouse paint, Stearns Paste, have been very satisfactory indeed.

In conclusion, we want to say that The A. T. Stearns Lumber Company has always given us good service and we take pleasure in recommending them to all growers."

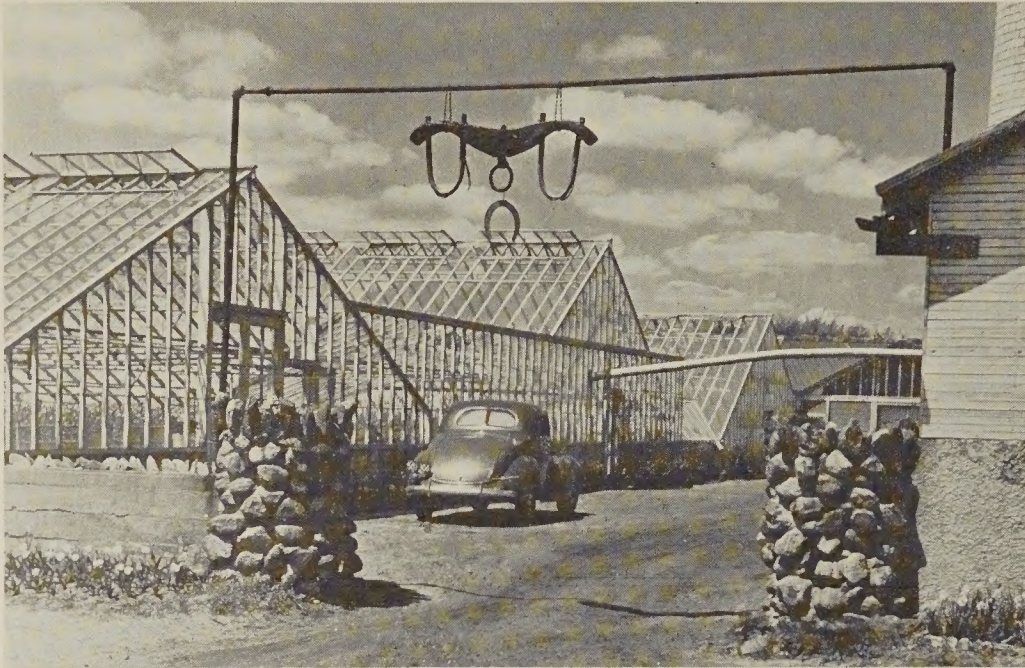
Yours very truly,
WOLLRATH & SONS, INC.
Pres. *Albert J. Wollrath*

STEARNS GREENHOUSES

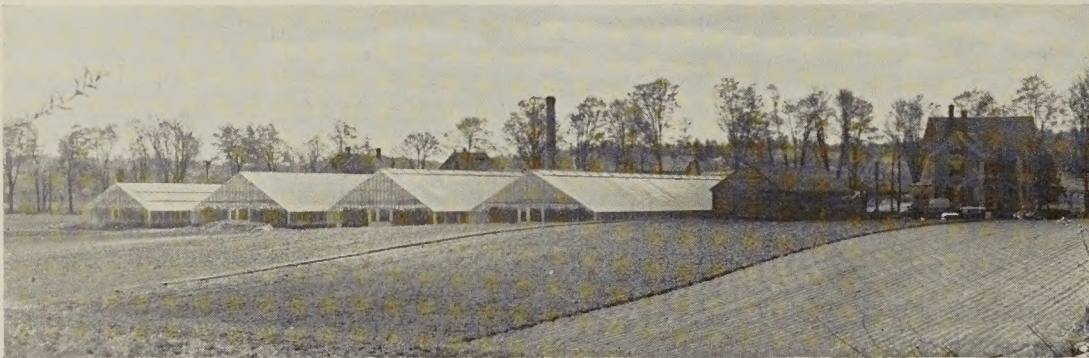
STEARNS GREENHOUSES are manufactured of Cypress and Redwood, the woods eternal. We furnish everything in connection with our houses, including heating equipment and erection if so desired. We have been in the manufacture of Greenhouses for 90 years and one of the first ones built is still in use — see letter at left.



An Angle Eave greenhouse, showing a Double Siding Foundation, instead of the usual Concrete Wall. Does not cost as much as the Concrete Wall. Being constructed of Cypress or Redwood and painted two coats, it is extremely durable and retains the heat.



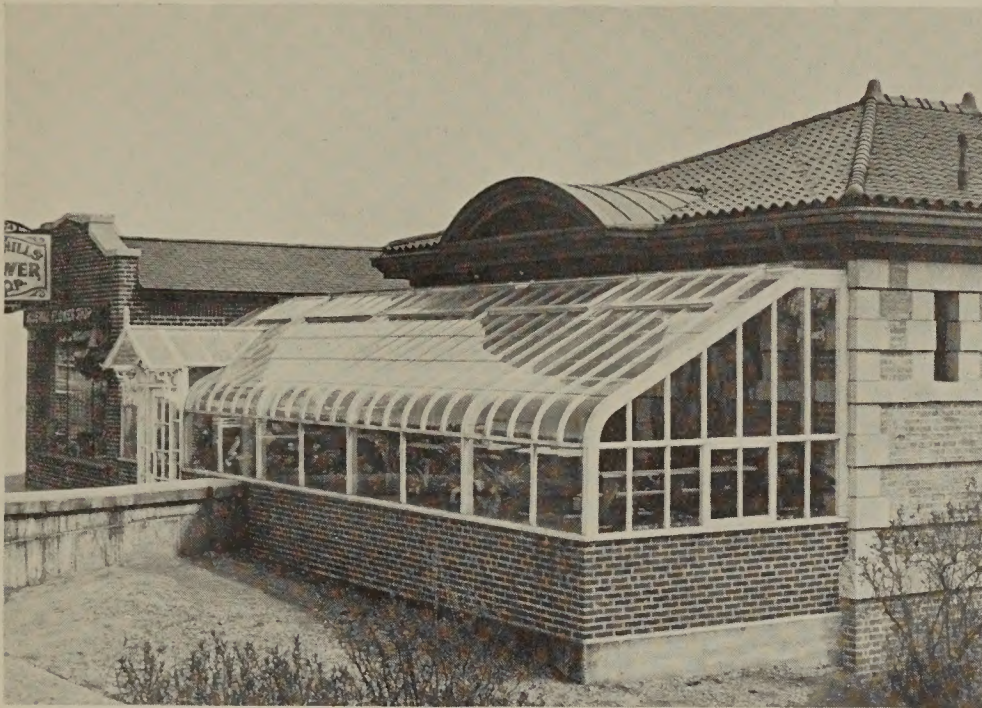
House erected for prominent commercial grower in Massachusetts
Size 35' 0" x 250' 0"



Four houses erected for a commercial grower in Massachusetts
Size of houses 32' 0" x 300' 0"



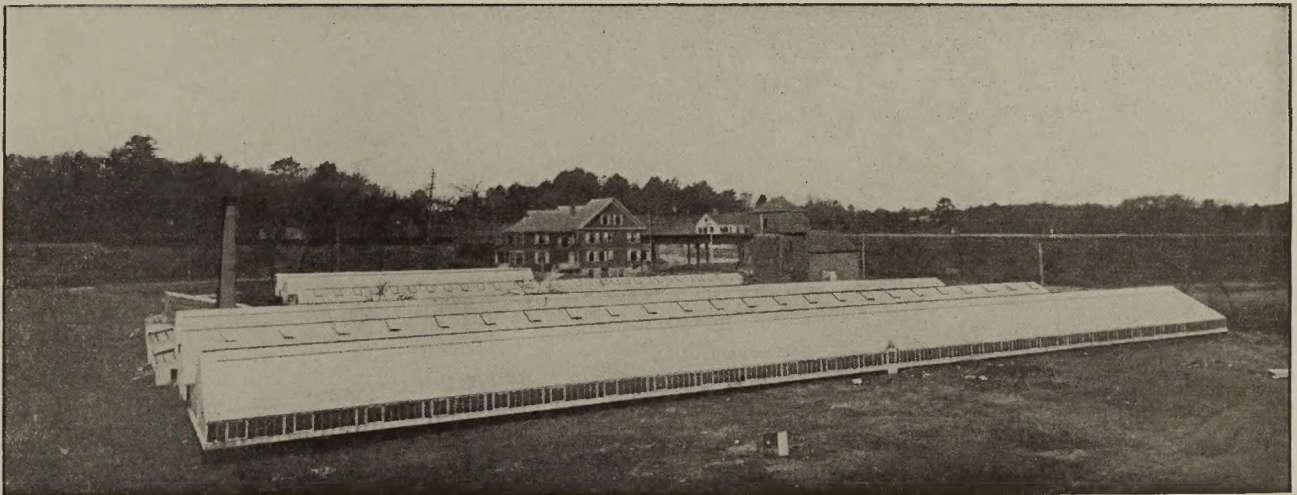
Greenhouses manufactured and erected by us at Tewksbury, Mass.



A curved eave Leanto Show House for a prominent florist in greater Boston. Heat is obtained by extending the heating pipes from the boiler of main building.

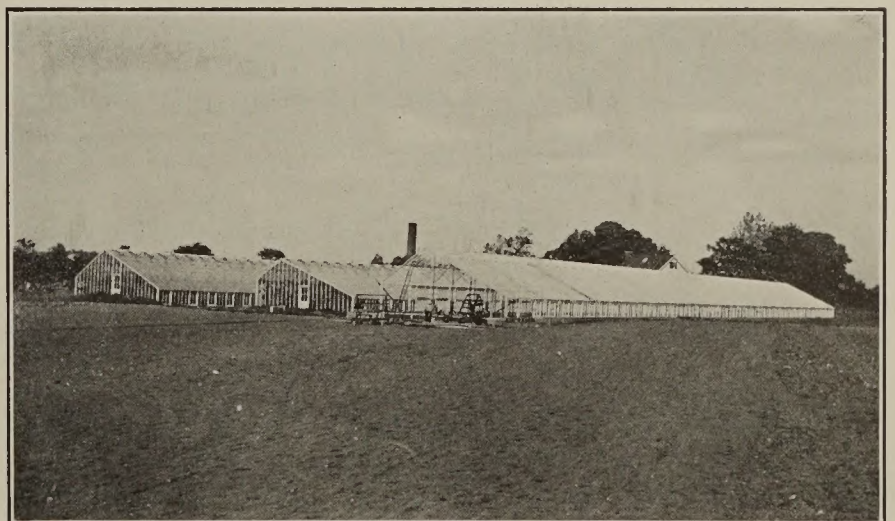
An attractive hooded entrance with French door and side lights add to the general appearance of the house.

Size is 40' 0" x 12' 0"



Greenhouses at Ellis, Mass.

An additional House being constructed for P. J. Lyons, Woburn, Mass.





Greenhouses erected by us in Maine
Houses averaging in size 25' 0" x 125' 0"



House 60 x 1350 feet

Houses at Madbury, N. H.
(Note the Sizes of These Houses)

House 54 x 820 feet

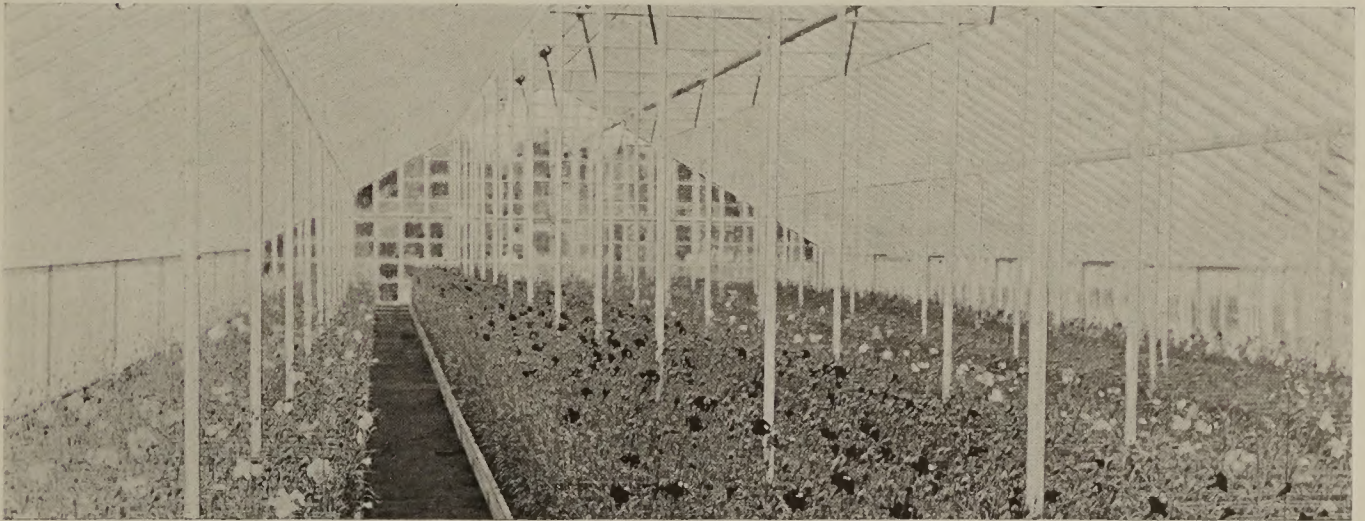


The interior of a
wood eave
Greenhouse fab-
ricated by us and
in process of
erection.

Size of house is
28' x 200'.

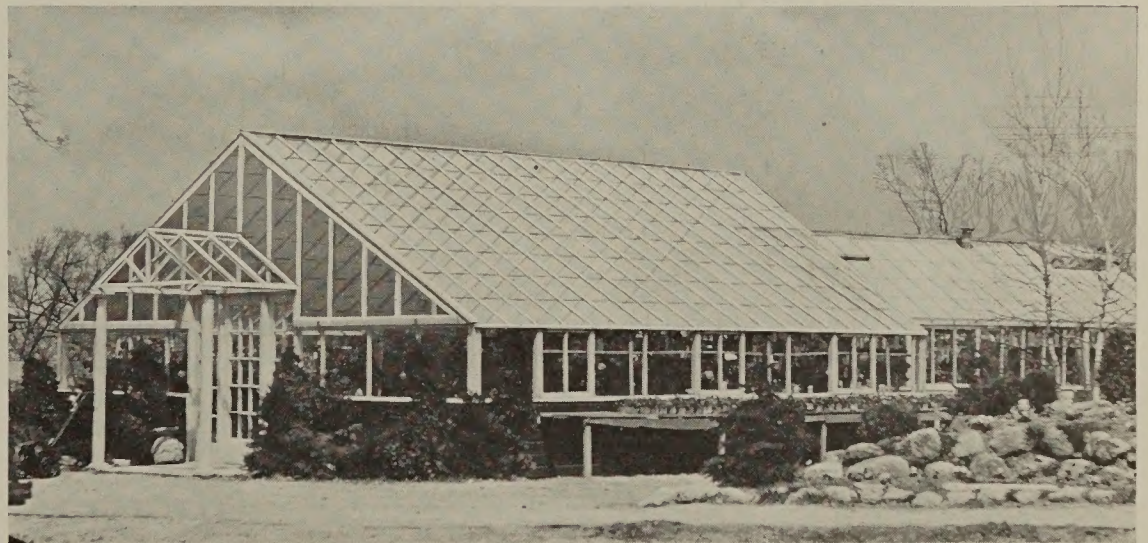


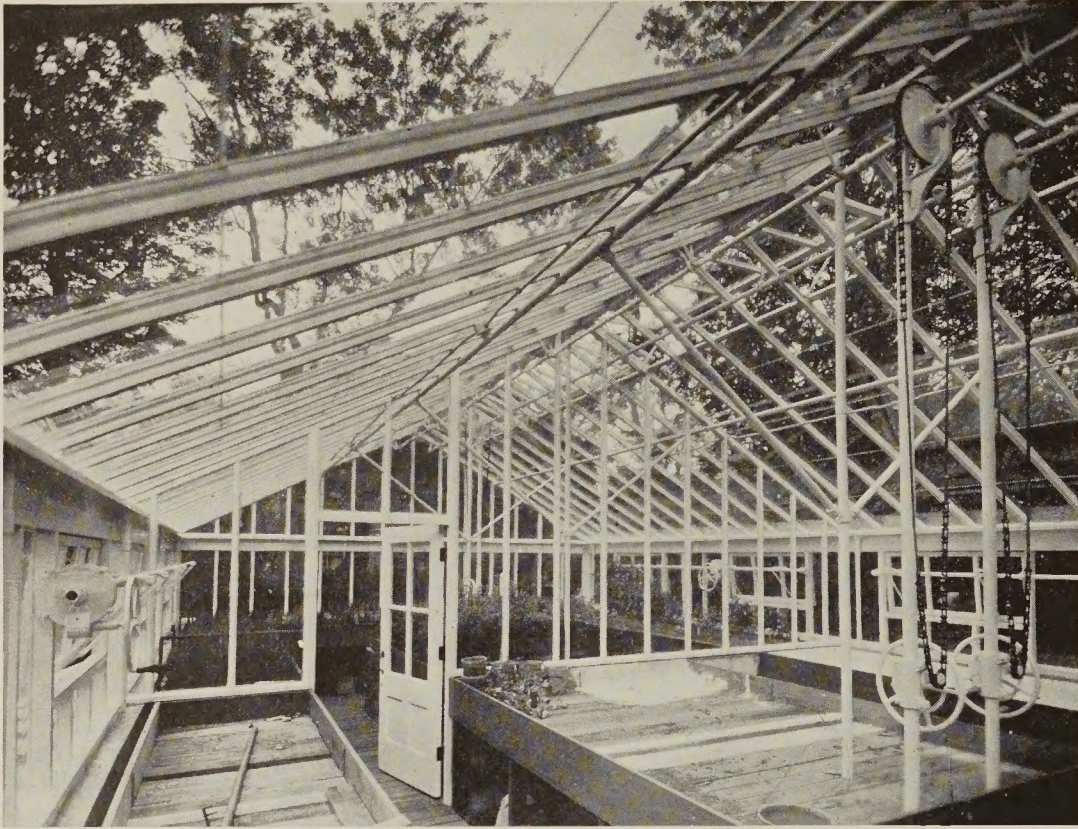
Houses erected by us in Massachusetts
Average size 25' 0" x 150' 0"



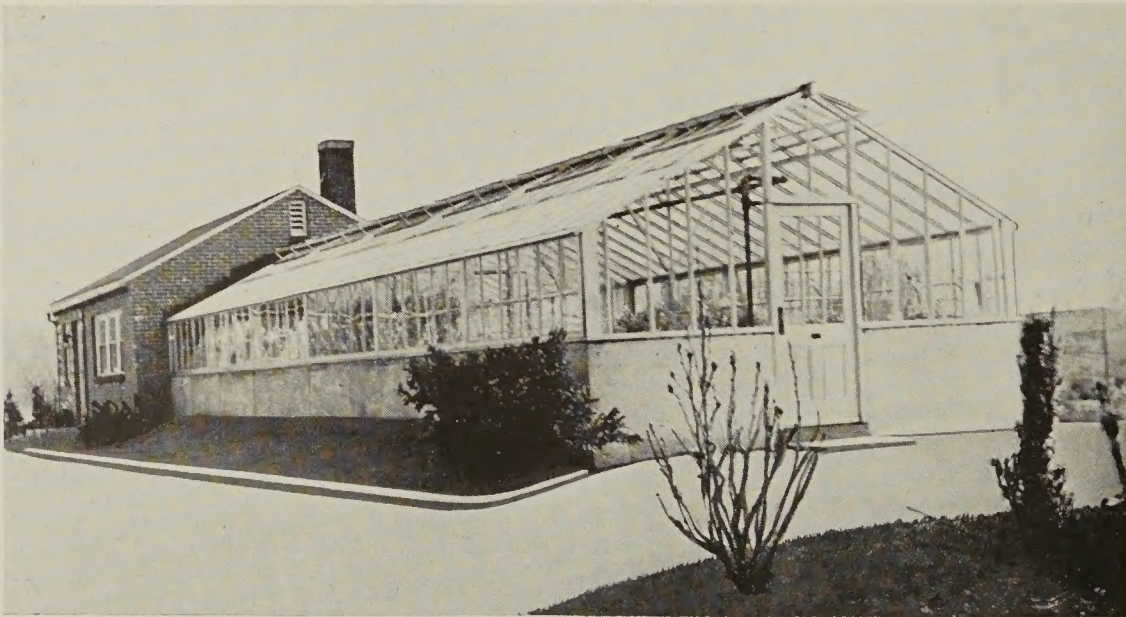
Interior Carnation House, Tewksbury, Mass.

An angle eave show house with vestibule, French door and side lights, Greenhouse in rear. Erected for a prominent florist in the Metropolitan Boston area. Size of show house—30' 0" x 25' 0"





Interior of Greenhouse showing construction and arrangement of benches, also glass partition wall. Where different degrees of temperature is desired thermo-static control of the heat will give the required temperature in each section of the house. Size is 33' 0" x 15' 0"



Greenhouse with service house erected in Metropolitan Boston
Size of house 50' 0" x 15' 0"
Mass. State College Field Station at Waltham, Mass.



Curved eave conservatory greenhouse attached to residence. The pipes which heat the greenhouse are under the benches, and are extended from the heating system of the residence. Size 25' 0" x 12' 6".



An attractive Conservatory Greenhouse with a hooded entrance. The heat for the Greenhouse was obtained by extending pipes from the heating system of the house and placed under the benches. Size — 20' 0" x 14' 0".



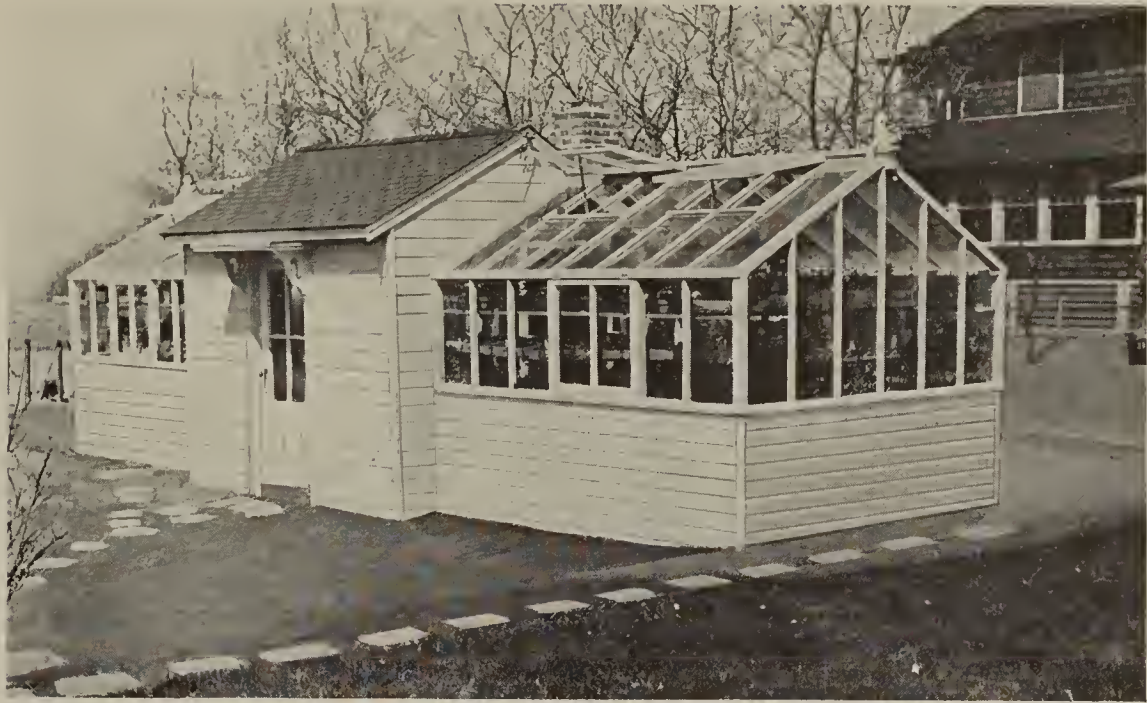
An attractive Conservatory Greenhouse placed in the angle of a residence. The heat for this Greenhouse was obtained by connecting the pipes under the benches of the Greenhouse with the boiler in the cellar.

Size of house, 8' 0" x 12' 0"



A small Greenhouse for the home owner. Heat is furnished by small boiler in corner of house.

Size of house is 15' 0" x 10' 0"



A Greenhouse with two wings with service house between. This is an ideal arrangement for the home owner. There being two wings or sections of Greenhouses enables one to have two degrees of heat. Sizes of wings is 10' 0" x 8' 0", while service house which contains the boiler for heat, potting benches, etc., is 10' 0" x 10' 0".

There are many varieties of this type of house of which we shall be pleased to show you sketches and submit estimates.



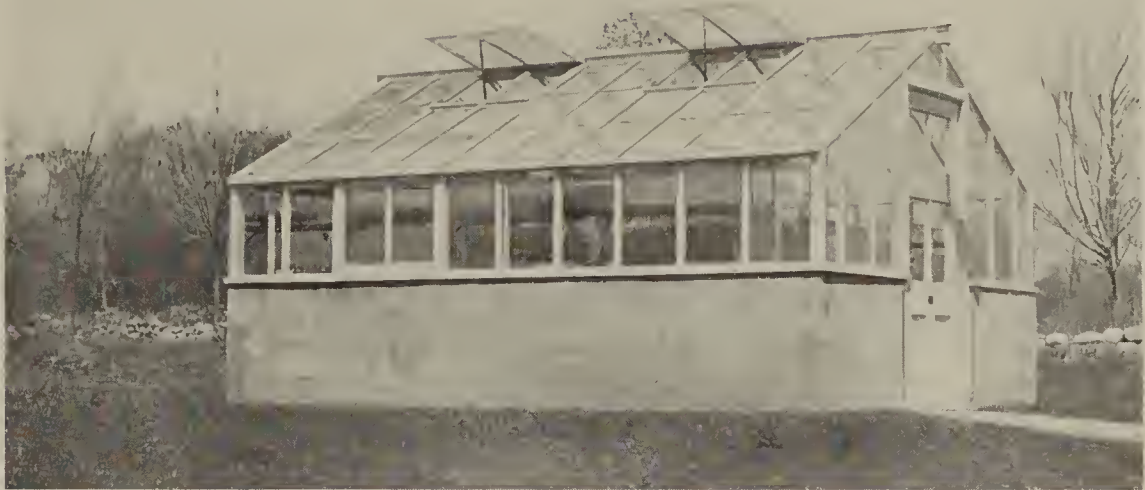
Detached Greenhouse with hot bed sash against wall of house. Hot bed sash is readily heated by pipes extended from the heating system of the Greenhouse.

Size of house 33' 0" x 15' 0"

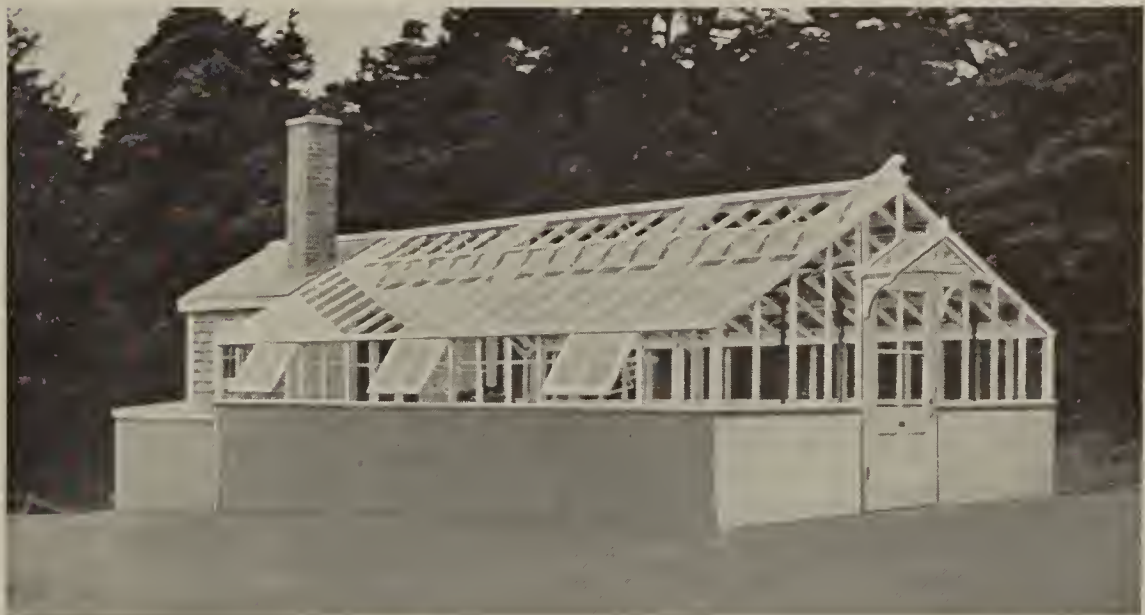
A charming leanto conservatory or solarium fitting in exceedingly well with the residence, not detracting from the appearance but rather enhancing it.

Size 15' 0" x 12' 0"

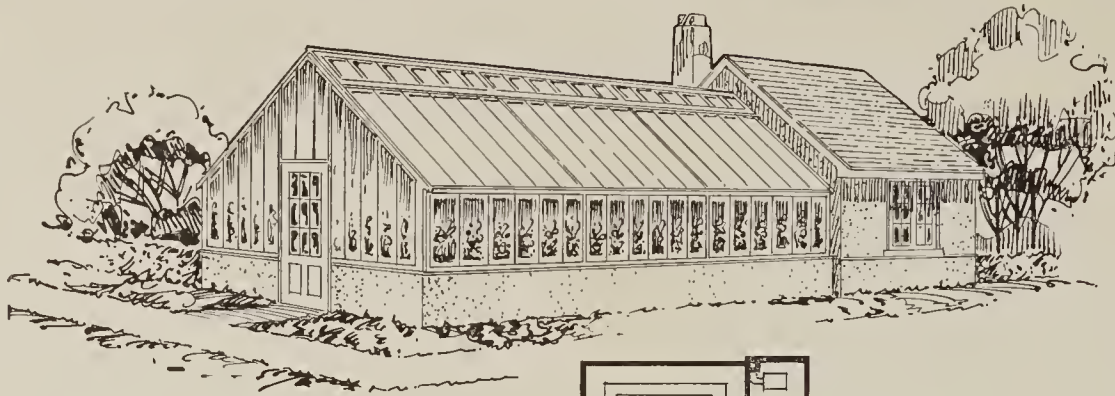




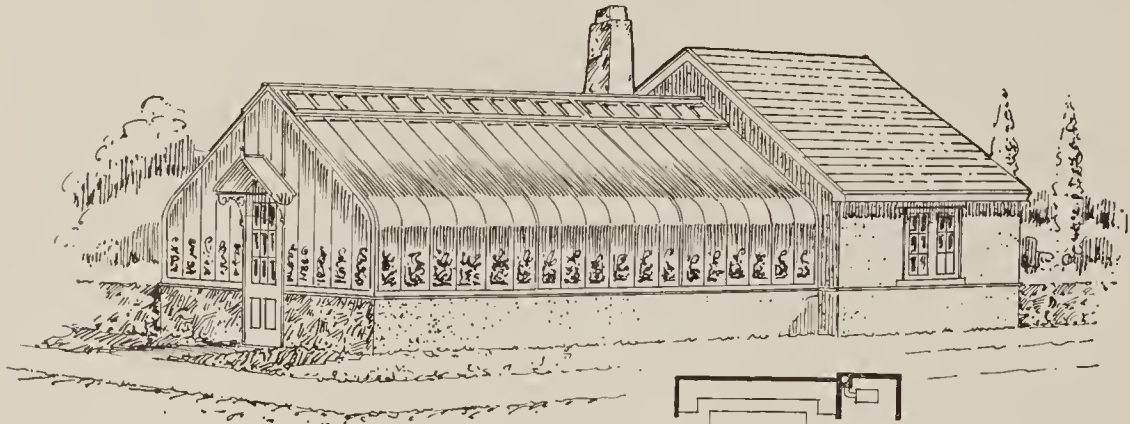
A small Greenhouse for the home owner. Heat is furnished by small boiler in corner of house.
Size of house is 15' 0" x 10' 0"



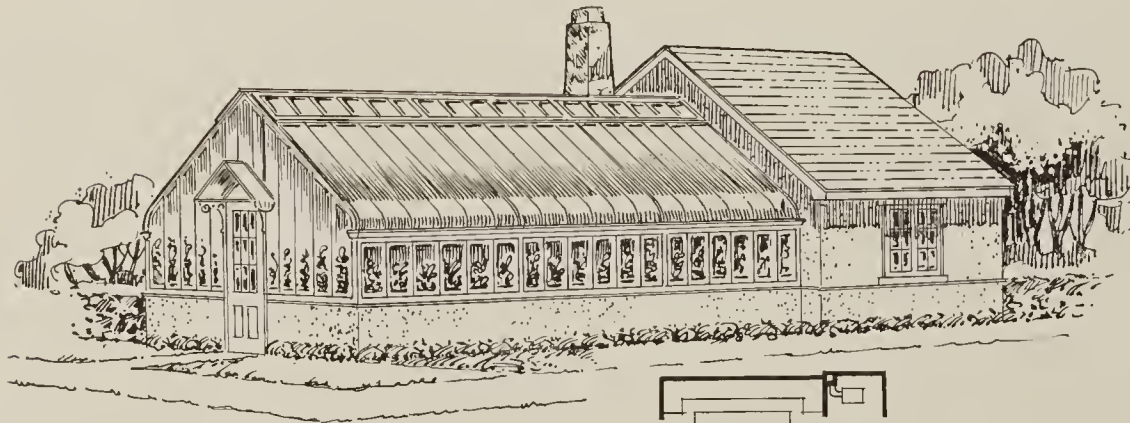
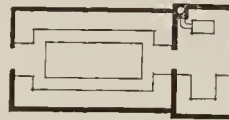
Angle eave Greenhouse with boiler room and work room attached.
Size 25' 0" x 15' 0"



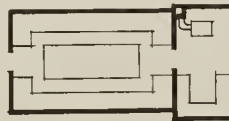
DESIGN NO. 10
ANGLE EAVE



DESIGN NO. 20
CURVILINEAR



DESIGN NO. 30
SEMI-CURVILINEAR



Greenhouses with Work-Room Attached

Design No. 10 — Angle Eave — Greenhouse 14' 0" x 25' 0". Work-Room 10' 0" x 16' 0". Side sash can be made movable, if desired. Double width glass for display.

Design No. 20 — Curvilinear Eaves — Greenhouse 14' 0" x 25' 0". Work-Room 10' 0" x 16' 0". If ventilation in side is required, movable sash may be installed at intervals.

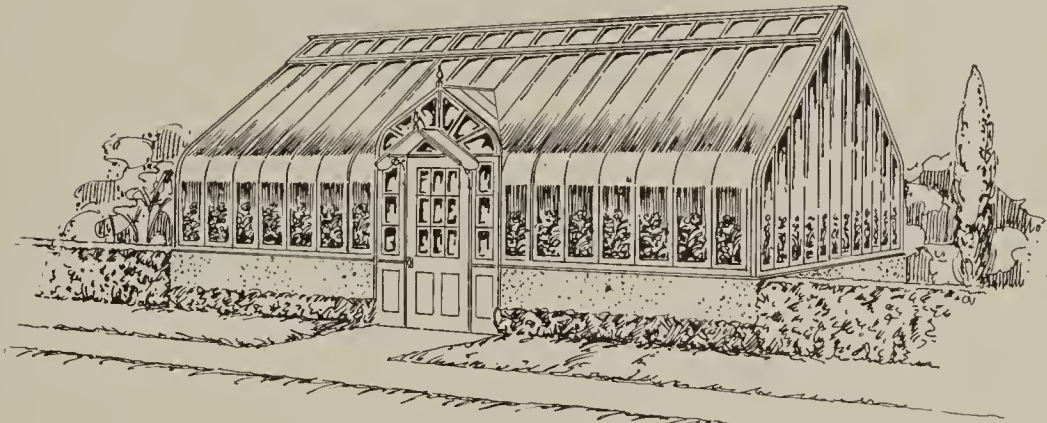
Design No. 30 — Semi-Curvilinear. Greenhouse 14' 0" x 25' 0". Work-Room 10' 0" x 16' 0". Side sash below gutter can be made movable, if desired.

The above Greenhouses and Work-Rooms may be made larger or smaller as required. Heat, hot water, or steam.

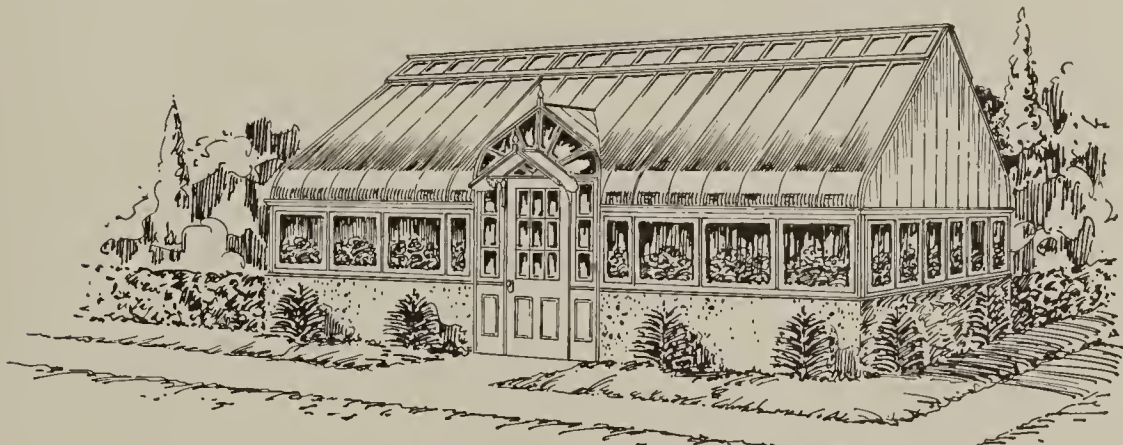
We shall be pleased to submit sketches and estimates based upon your requirements. Our designing staff is at your service and we invite your inquiries.



STANDARD CONSERVATORY No. 100
18' 0" X 25' 0"



STANDARD CONSERVATORY No. 125
18' 0" X 25' 0"



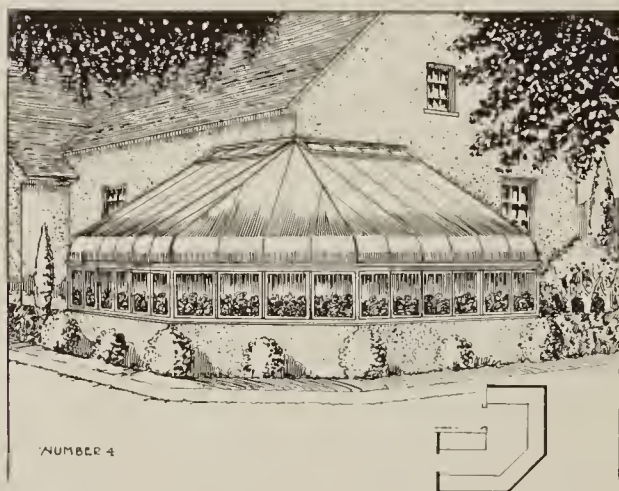
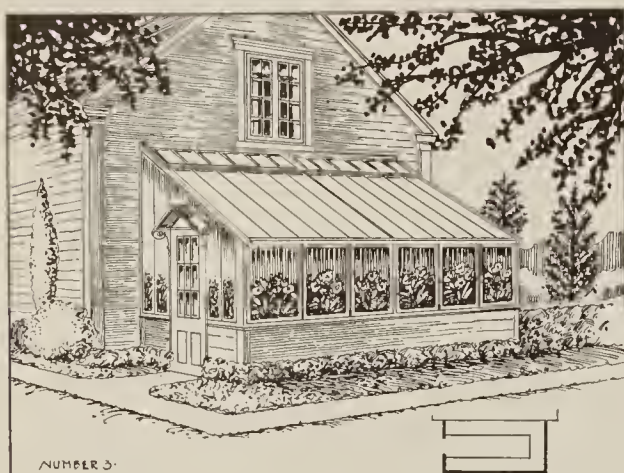
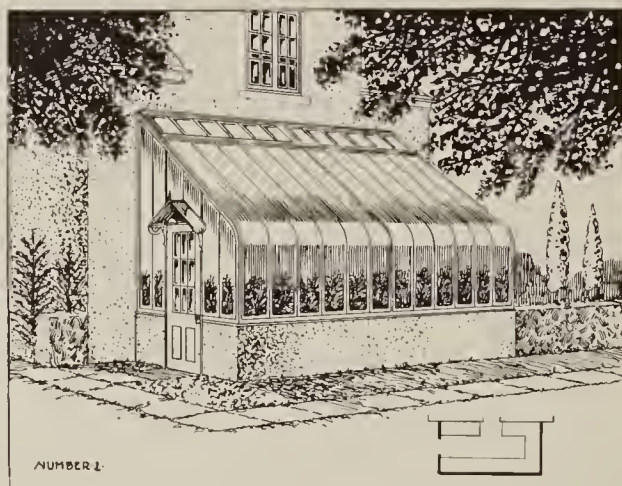
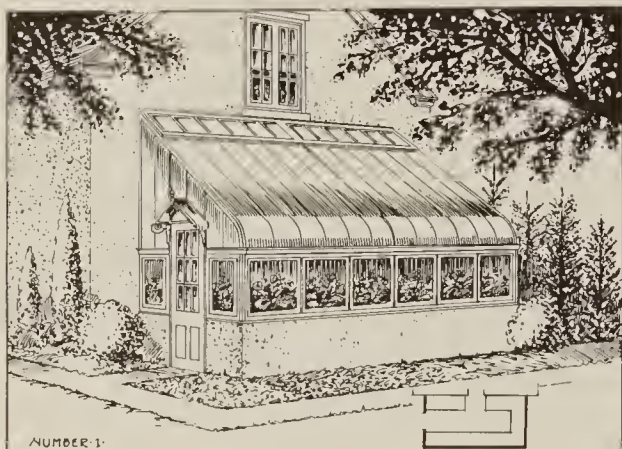
STANDARD CONSERVATORY No. 150
18' 0" X 25' 0"

Standard Conservatories Nos. 100, 125, and 150 — 18' 0" x 25' 0". These houses are also made in various standard widths and lengths either larger or smaller.

Standard Conservatory No. 100 — Glass in roof is 16" wide — glass under eaves 30" by 30" for display purposes.

Standard Conservatory No. 125 — Glass in roof and sides is shown 16" wide. If desired glass may be 24" wide.

Standard Conservatory No. 150 — Glass in roof is shown 16" wide — glass below gutter is 30" by 30" for display purposes.



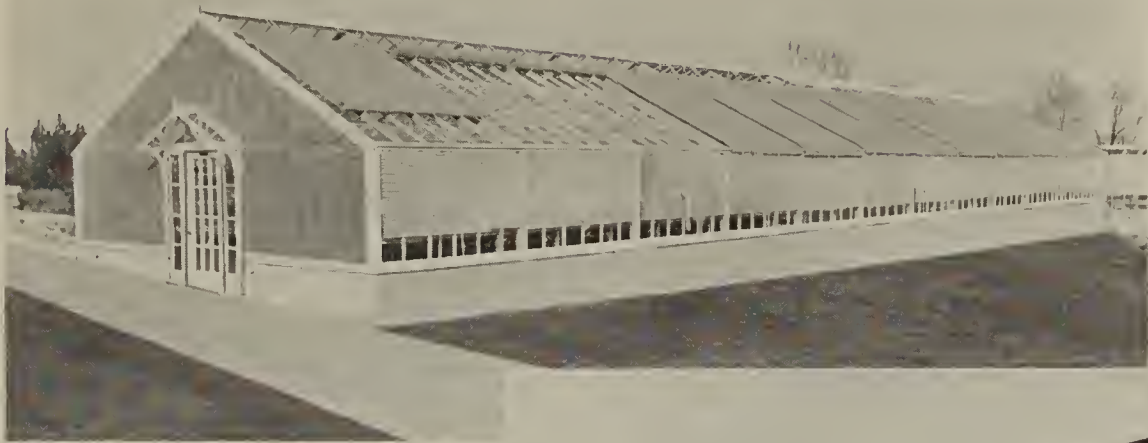
No. 1 — Stearns Semi-Curvilinear Leanto Conservatory. Vent sash at ridge, in connection with vent sash under gutter, provides for the best ventilation. Heat is obtained by connecting the heating coils of the Conservatory with the heating system of the house.

No. 2 — Stearns Curved Eave Leanto Conservatory. Similar to the Semi-Curvilinear Leanto but lower in cost, as there is no gutter and the sidewall glass is stationary. Vent sash is at ridge, and if side ventilation is desired, vent panels may be introduced in the side wall.

No. 3 — Stearns Straight Eave Leanto Conservatory. Costs less than the Curvilinear Type — although the difference is not great. Vent sash is at ridge, and if side ventilation is desired, sash under eaves can be made movable. Heat is obtained by connecting the heating coils of the Leanto with the heating system of the house.

No. 4 — Stearns Leanto Solarium. Attached to corner of residence, Curvilinear with gutter, vent sash at ridge. If glass in side is to be movable, for more ventilation, casement sash may be installed, regulated with push rods. Heat is obtained by connecting the heating coils of the Leanto Solarium with the heating system of the house.

When desired, Insect Screens can be made and installed on vent sash at ridge and in glass side.

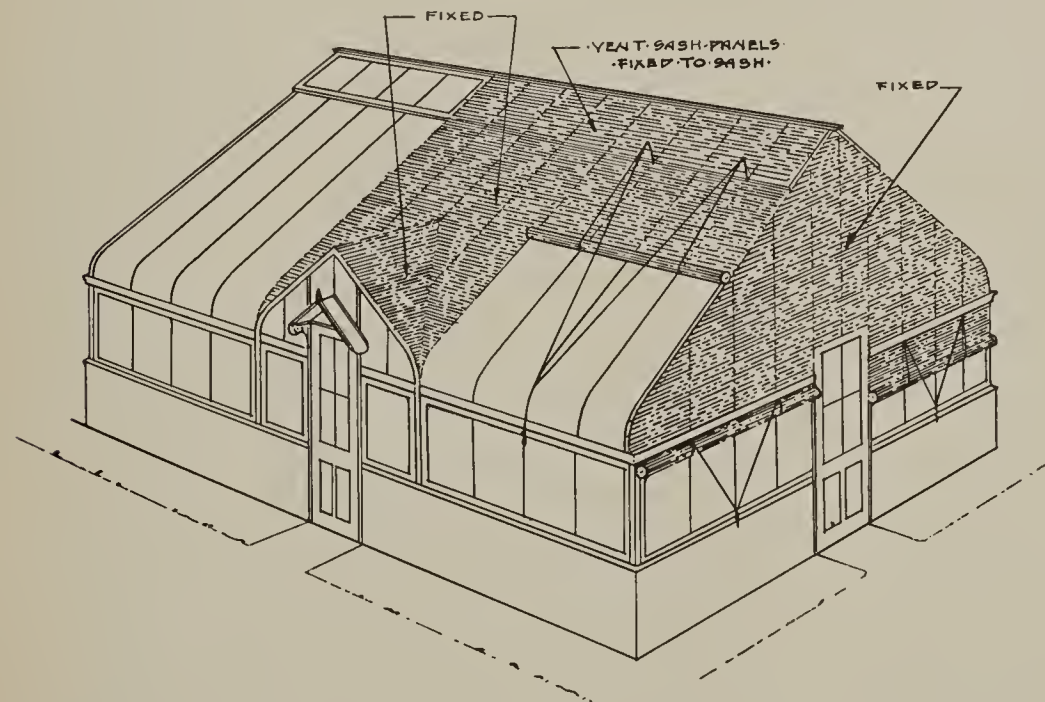
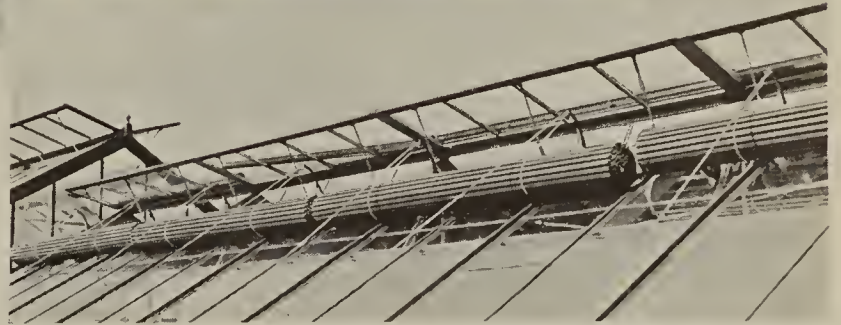


SLAT SHADING

Slat Shading keeps your house from 8 to 10 degrees cooler on hot days, also protects the plants from the sun's burning rays.

The slats are made $\frac{7}{8}$ " x $\frac{1}{4}$ " Cypress strips spaced $\frac{3}{8}$ " apart. They are painted two coats of greenhouse paint and joined together with non-rusting wire couplers. Rope and galvanized pulleys and brackets are furnished complete to operate the shading.

Although usually placed flat on the roof, it is better and costs very little more, to have the shading raised 2" above the glass on runners. By elevating the shading 2" above the roof, the air circulates under them and keeps the house much cooler in summer.

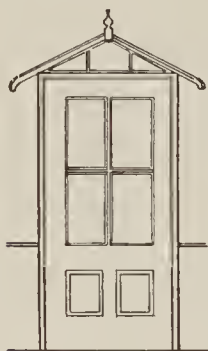


It is even better to raise the shading higher, and in the case of orchid houses, where shading is essential to obtain the best results, the shading is raised 8" above the glass.

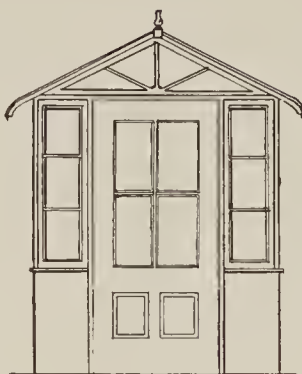
The shading for the roof sash is secured with brass buttons to the header, and rolls up and down the roof.

Shading covering roof ventilating sash and irregular shapes, such as the ends, valleys, etc., is attached to the house by means of brass buttons.

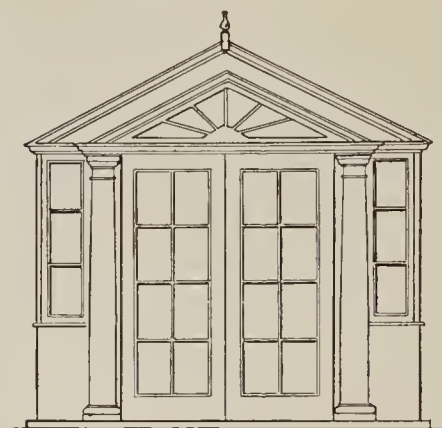
All of the shading is easily attached and easily removed.



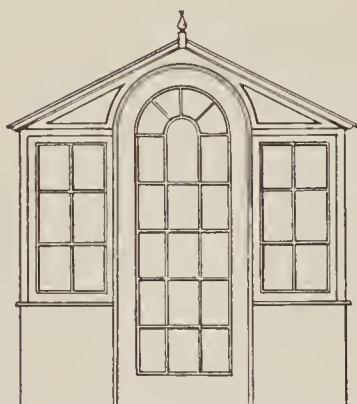
DESIGN No. 1.



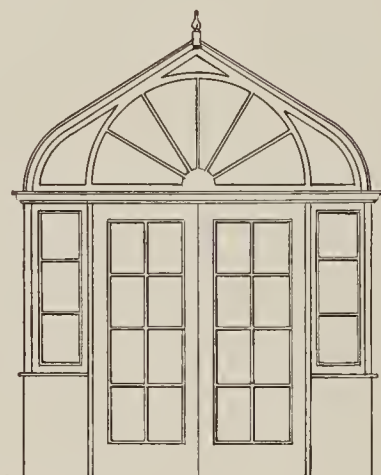
DESIGN No. 2.



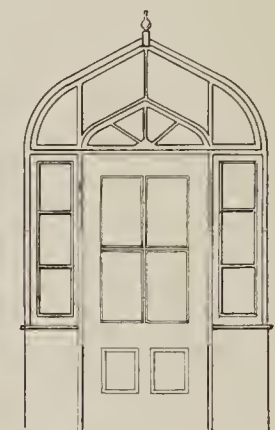
DESIGN No. 3.



DESIGN No. 4.



DESIGN No. 5.



DESIGN No. 6.

ENTRANCES AND VESTIBULES

Design No. 1 — Gable Entrance — Hood over Standard Door.

Design No. 2 — Gable Entrance with side lights and hood over Standard Door.

Design No. 3 — Side Entrance, vestibule, double doors, side lights, and columns.

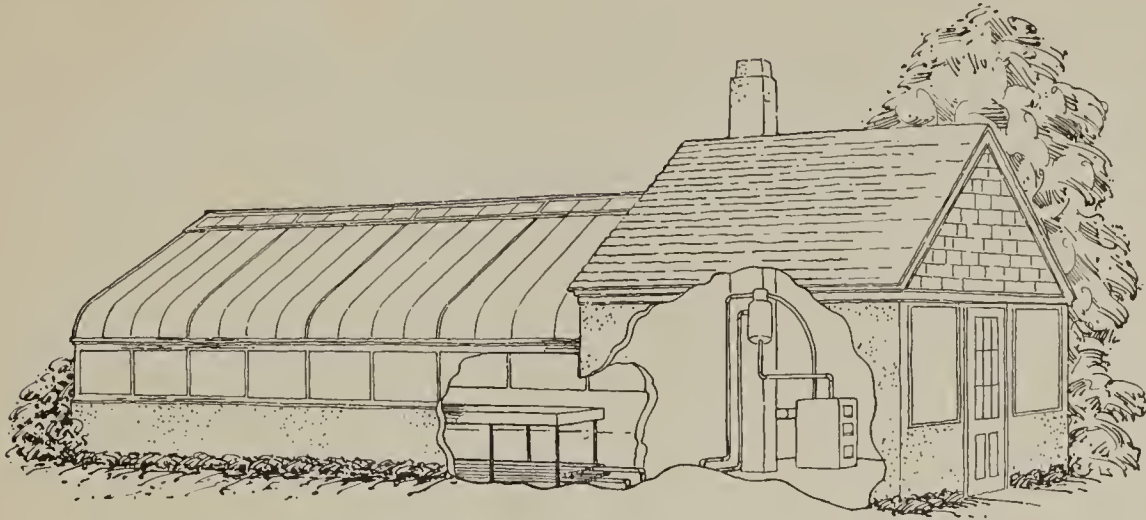
Design No. 4 — Side Entrance, round headed single door with side lights.

Design No. 5 — Side Entrance — Double doors with side lights.

Design No. 6 — Side Entrance — Standard door with side lights.

Stearns Greenhouse Standard Doors

2' 6" x 6' 6" — 2' 8" x 6' 6" — 3' 0" x 6' 6" 1 1/4" thick



HEATING

A heating system for Greenhouses calls for special design and installation as well as skill in engineering.

The heating problems for Greenhouses are quite different from those of the usual type of buildings.

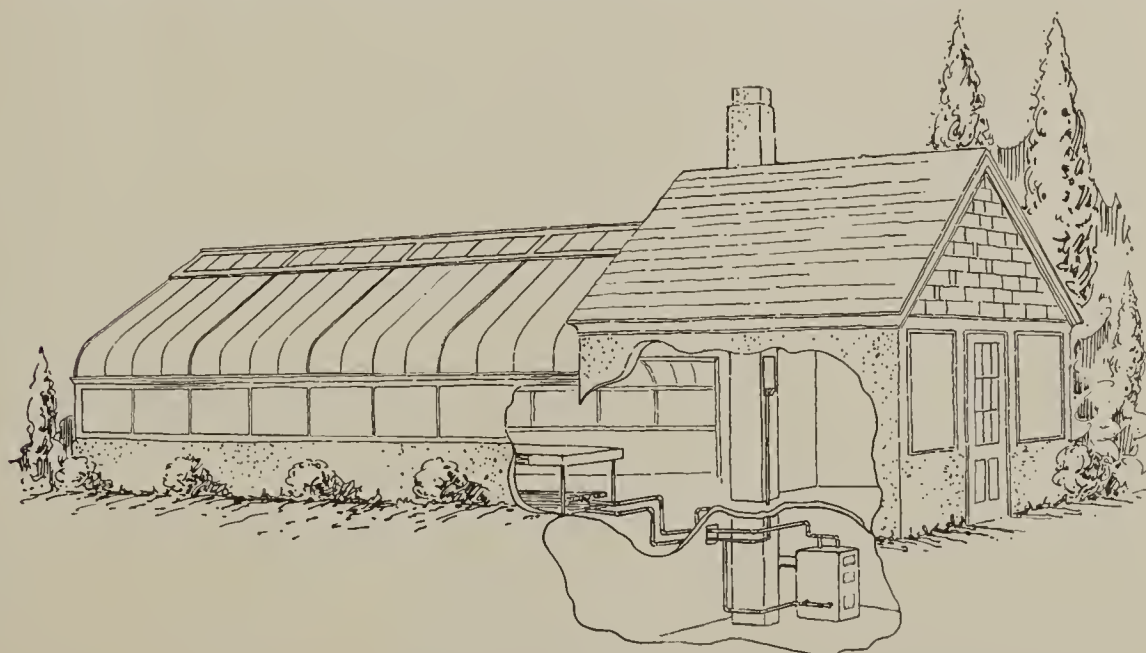
Due to the various plants which are to be grown, regardless of the outside temperature, the heat must be continuous and uniform.

The cut-away sketches above illustrate typical installations, in one case the boiler being installed upon the entrance floor of the building — while in the other the boiler is installed in the cellar or basement.

The heating system may be either hot water or steam, using as fuel either coal or oil, either hand fired or by stoker (where coal is used as a fuel).

Automatic temperature control may be installed so that frequent care is not necessary.

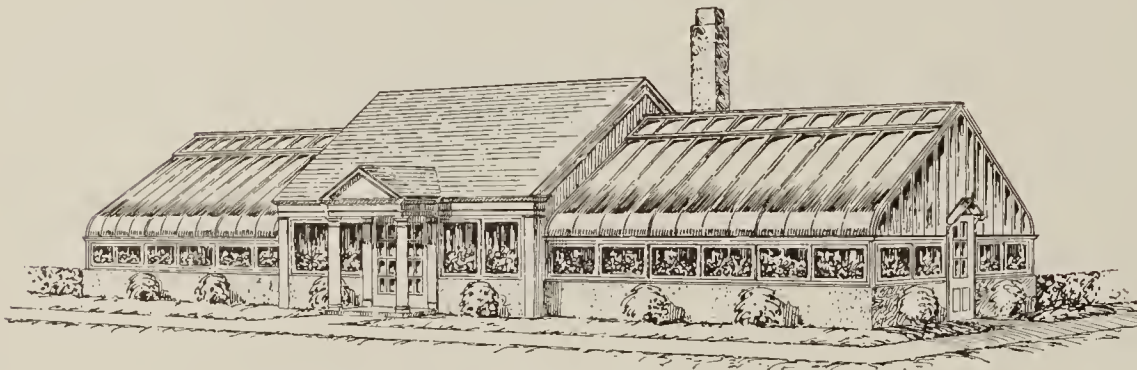
In many cases the heating plant of a residence, garage, or other building may be used to furnish the heat for a Greenhouse or Conservatory, — by extending the heating pipes so that another boiler is not necessary.



STEARNS GREENHOUSE STORES



DESIGN NO. 1



DESIGN NO. 2

Attractive greenhouse stores in connection with the show houses as sketched above. Have it of such size that it may be a regular growing house as well as a store.

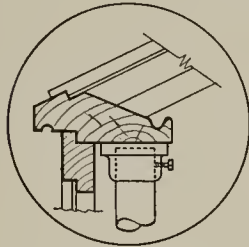
The store roof is shingled with asphalt shingles and the boiler for heating is located in the basement.

Our architectural staff is expert in the designing of new greenhouse stores to suit your requirements and desires. Do not hesitate to consult us.

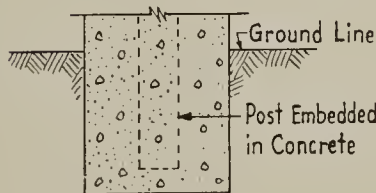
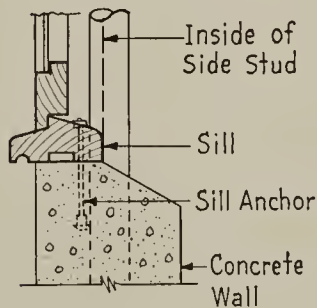
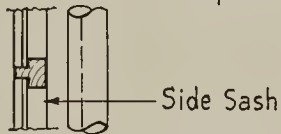
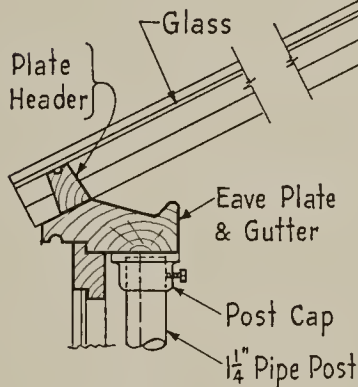
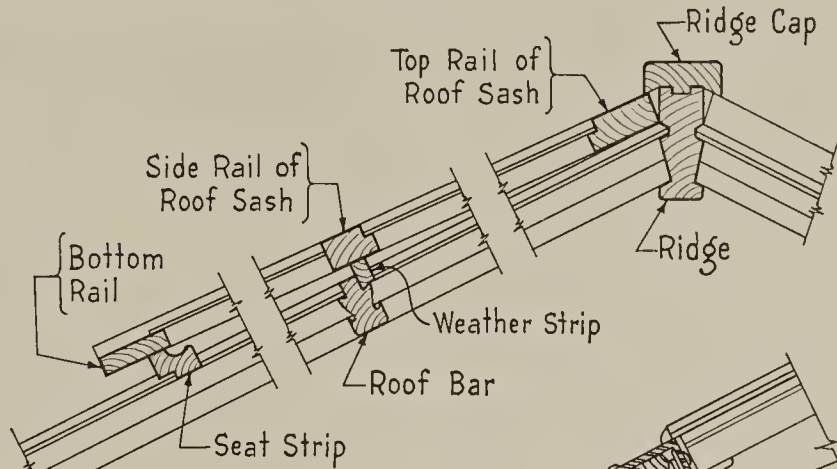
CONSTRUCTION DETAILS

(Brief Outline)

Some Types of Stearns Greenhouses



SECTION
Without Plate Header



Roof Bars—

Made with drip grooves on the sides and special putty bed grooves.

Eave Plate & Gutter—

Made in one piece and can be easily cleaned with a hose.

Purlins—

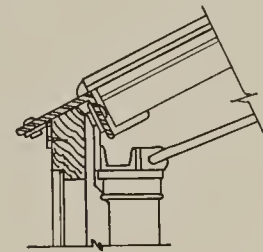
Are firmly attached to gable rafters by iron fittings.

Pipe Columns—

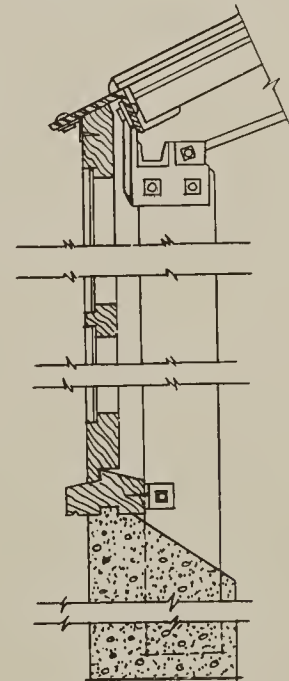
Best grade of iron pipe carried down and embedded into concrete wall.

Note—

Stearns Greenhouses can be made to any size or type desired. Side wall either masonry or wood. Can be furnished in either wood, or semi-iron, or steel construction.



ANGLE EAVE WITH
GALVANIZED DRIP GUTTER
USED WITH PIPE POST



ANGLE EAVE WITH
GALVANIZED DRIP GUTTER
USED WITH FLAT POST

THE PLANT HOUSE

An Article by PAUL W. DEMPSEY

Field Superintendent of the Field Station of the Massachusetts State College at Waltham, Mass.

Success in growing early vegetables or flowers depends upon the right kind of equipment and soil for the production of good plants. The grower who has set well grown plants in early soil with plenty of plant food and moisture and with constant good care will harvest better crops much earlier. Well grown plants are the forerunners of profitable yields.

Plant houses built with ordinary hot bed sash for starting seed and growing plants are fast taking the place of hotbeds — This type of small greenhouse has many advantages over the hotbed; heat, moisture, and ventilation can be more easily and satisfactorily controlled, seeding and transplanting operations can be performed whenever desired regardless of weather conditions; and it is more economical to furnish heat by artificial means than by manure.

Sash houses from 3 to 50 sash long may be found in satisfactory operation wherever plants are grown. Hot water heat is the most satisfactory and the heater can be installed on the ground level, doing away with the necessity of a pit and possible trouble from surface water. For the average grower, a house 10' 0" x 30' 0" is a good size to start with. A house this size will fill over 100 cold frame sash; planting can be delayed from one to three weeks and better crops can be harvested earlier.

We have two houses of this type at the Field Station, one built well into the ground with concrete sides to preserve heat and the other entirely above the ground level. These houses are thoroughly practical and can be seen in operation at the above address.

Greenhouses and Plant Houses for propagating have been manufactured by Stearns Greenhouses Co. since 1849 — Our Engineers will be glad to assist you in every possible way to solve your problems. We are at your service.

STEARNS PROPAGATING HOUSE

(OR SMALL GREENHOUSE)

For Private Homes, Estates, Sanitariums and the Farmer

"Made from Ordinary Hotbed Sash"

This type of greenhouse is fast taking the place of hotbeds. Growers everywhere are adopting this modern aid to the production of good plants. Saves 3 weeks' time in planting. A house 10' x 30' will fill over 100 cold frame sash, but a house of any size can be furnished in part or complete with or without heating equipment.

They are made with either concrete, wood, or glass sides.

Above ground or below ground level.

These houses can be seen at Waltham Field Station, Massachusetts State College, Waltham, Mass.

YESTERDAY

AND

TODAY



Which
Do
You
Use?



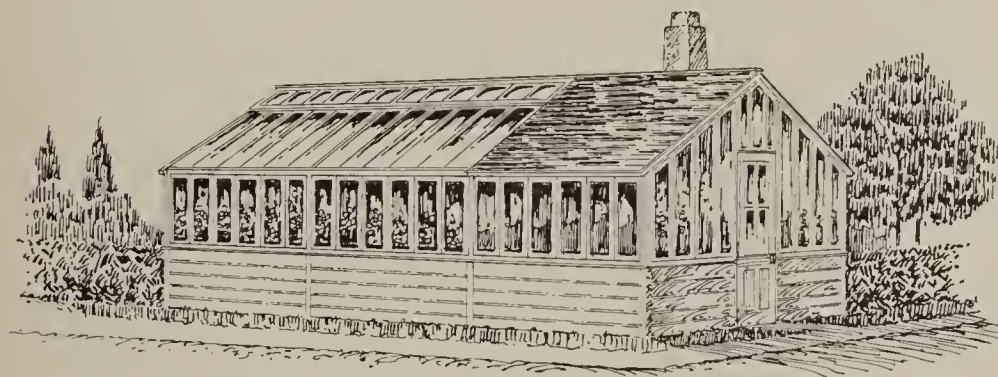
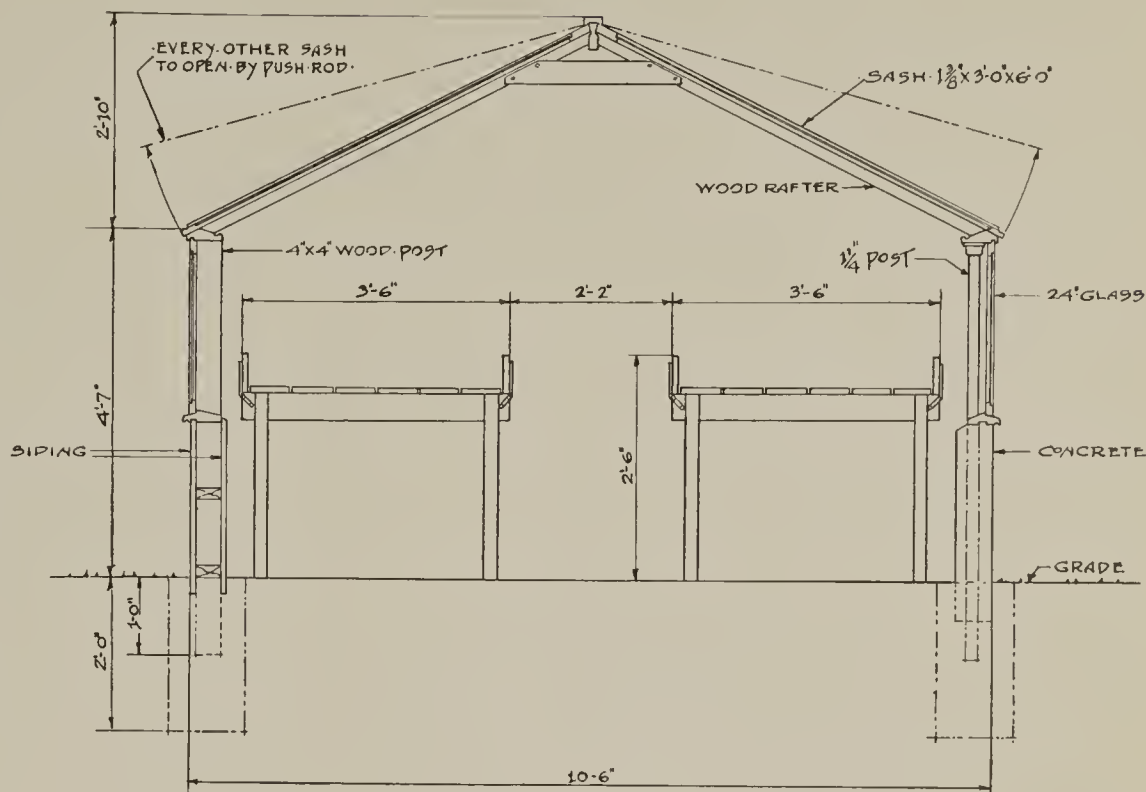
(Actual Photographs from Massachusetts State College)

No. 30 Stearns Sash Greenhouse

Built with Stearns Hot Bed Sash, hinges at Ridge and raised for ventilation by push rods at the lower ends.

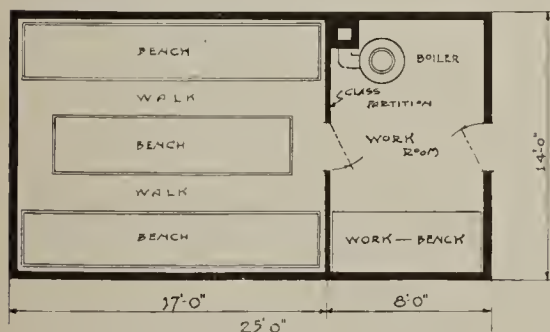
Walls may be either wood or concrete.

We recommend this type of house for its economy and ease of erection. The glass in side walls can be eliminated with sash resting on the sills instead of on plate. Plans and details will be furnished so that owner can erect himself, without difficulty.

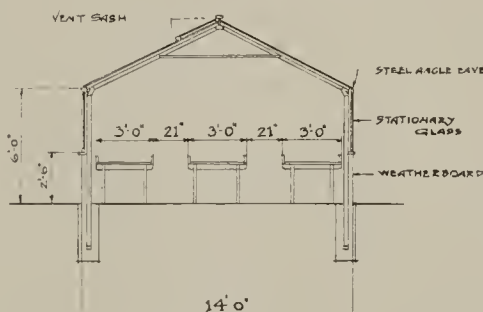


Stearns Standard Sectional Greenhouse

No. 300 with work room attached. This Greenhouse can be made any length in multiples of 8' 4", also any width which may be desired. Side Sash can be made movable, regulated by push rods or machine.



PLAN

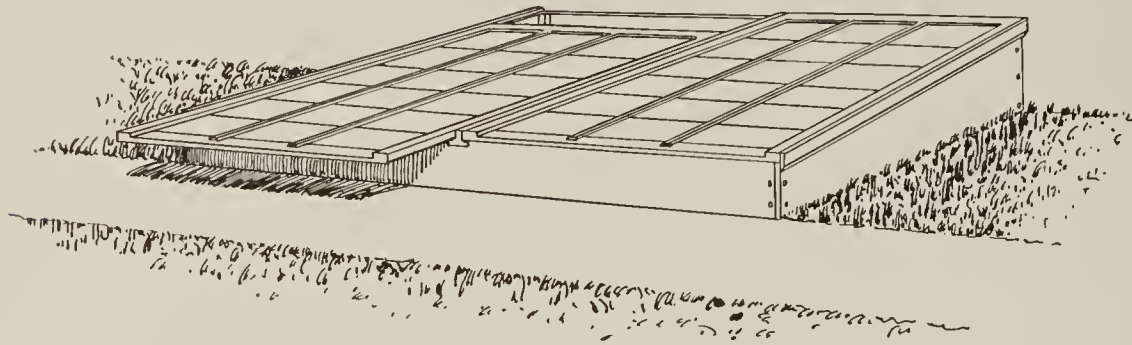


SECTION

STANDARD SECTIONAL GREENHOUSE NO. 300

We furnish plans and directions for easy erection by owner.

"TO HAVE EARLY PLANTS"



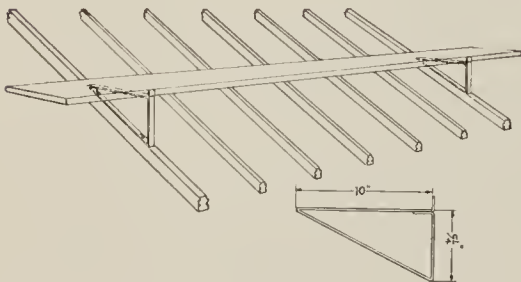
The use of Cold Frames enables the garden enthusiast to have early plants. These junior greenhouses consist of one or more cypress sash 3' 0" x 6' 0" fitted, about a foot off the ground, into the top of a cypress frame.

Cold Frames are invaluable for starting seeds and bulbs or preparing partially matured plants or vegetables for later transplanting into the open ground.

The Hot Bed is really the same thing as the Cold Frame with the addition of some means of providing heat.

Heat may be generated in the soil by a manure preparation, an electric heating cable, or from one or more heating pipes from a nearby boiler.

Hot Bed or Cold Frames are made of Genuine Tidewater Red Cypress, painted 2 coats, sash assembled and glazed, frames knocked down, all crated ready for shipment.



PAINTER'S ROOF BRACKET

An inexpensive Painter's Roof Bracket. Hooks over two round head screws, — made of 1" x 3/16" steel to take 8" to 10" plank. Used by us when erecting Greenhouses. Never wears out.

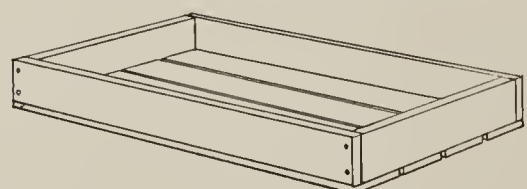
SIZES IN STOCK

Outside 12 x 20 — 2 3/4" inside
 " 12 x 20 — 3 3/4" "
 " 12 x 24 — 2 3/4" "
 " 12 x 24 — 3 3/4" "
 Sides and Bottoms 3/8" thick
 Ends — 3/4" thick

SEED FLATS

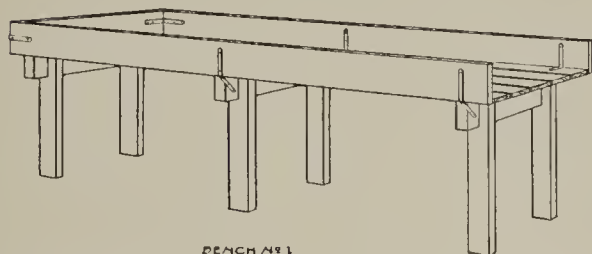
Made in Cypress

Can be made in any size desired.



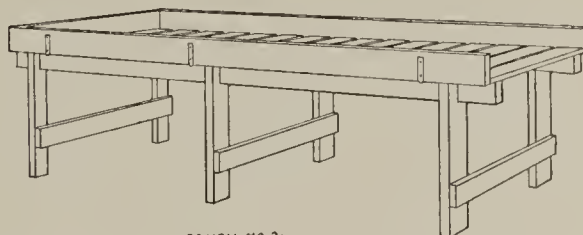
STEARN'S BENCHES

CYPRESS OR REDWOOD



BENCH NO. 1

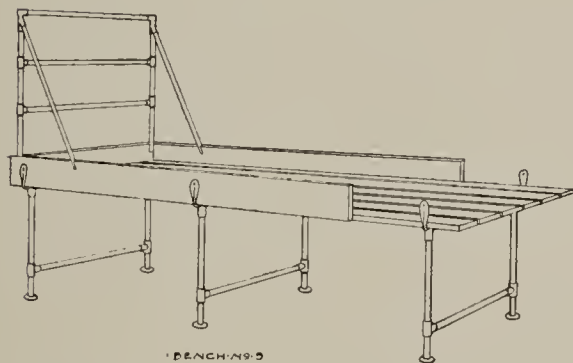
Bench No. 1 — Lengthwise bottom boards. Legs notched to support bearers. Galvanized steel side support fittings held with nails.



BENCH NO. 2

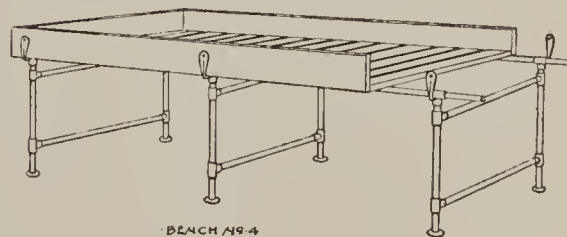
Bench No. 2 — Crosswise bottom boards, 1" x 3" dressed foot ties. Galvanized steel side support fittings held with nails.

PIPE FRAME BENCHES



BENCH NO. 3

Bench No. 3 — Bottom boards are rough cypress and side boards are dressed cypress. Frames are of 1" black or galvanized pipe and fittings are malleable iron castings. Bottom boards are lengthwise. Bottom and side boards are 1" x 6" or wider.



BENCH NO. 4

Bench No. 4 — Crosswise bottom boards. Bottom boards are random widths and cut to necessary length. Side boards are 1" x 6" or wider.

STEARN'S ALL WOOD BENCHES

Built throughout with rough 1" cypress or redwood lengthwise or crosswise bottom boards, rough or dressed 1" x 6" or wider sides, dressed 2" x 4" legs, 2" x 4" bearers or stringers. Wiring frames as shown on figure No. 3 can be furnished with any of these benches.



Greenhouse and Showhouse manufactured and erected by us, in Revere, Mass.

Greenhouse, Steel Angle Eave 28' 6" x 100' 0". Show House 24' 0" x 30' 0" partitioned off for office and show purposes. Two entrances with canopy over doors. The boiler for heating is in the cellar of the Show House. Roof of Show House is covered with asphalt shingles.

STEARNS PAINT, PUTTY AND GLAZING NAILS

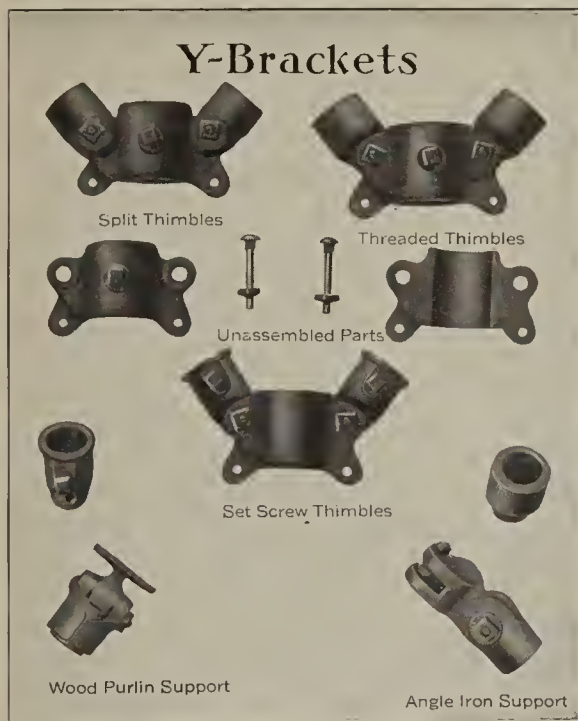


Stearns Greenhouse Paint is especially adapted for Greenhouse use, having been made for us according to a special formula. Combines good covering and easy brushing. Made in a semi-paste form it is reduced for application by the introduction of linseed oil, turpentine, and dryers. Put up in 1-, 3- and 5-gal. cans. White and stays white.

Stearns Aluminum paint is noted for its durability and excellent quality. Put up in 1 and 5-gal. cans.

Stearns Putty, both liquid and regular, is made from the best ingredients obtainable. Liquid Putty 16 lbs. to gal. Putty put up in 12½, 25, 50, and 100 lb. cans.

Glazing Nails are best quality zinc—sizes ⅝", ¾", 7⁄8".



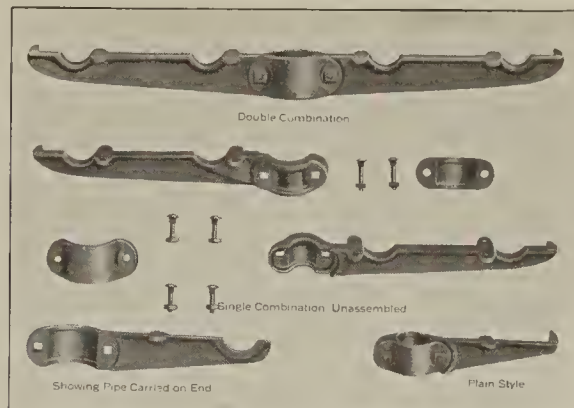
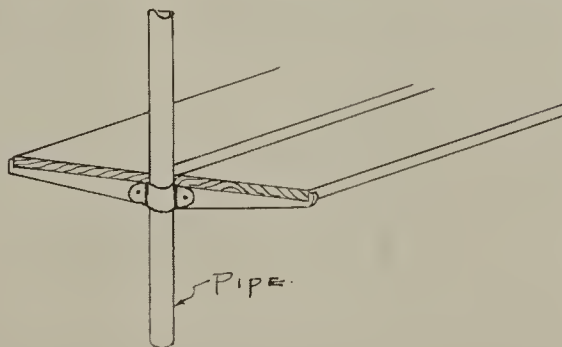
Y-Brackets

Y Brackets

Sturdy, well-designed Y-Brackets; made to last a lifetime. Special "double-eye" construction for attaching truss rods, wires, etc. Thimbles for Y-Brackets furnished in either clamp, threaded or set screw type. Can be furnished to fit on any size pipe post.

Purlin Supports

Adjustable, permanent, safe connector for attaching to brace pipes. Furnished in two styles either to fasten to wood or angle iron.



Shelf Brackets

Brackets are of heavy construction with extra reinforcements at the points of greatest strain. Furnished in malleable iron. Made 6", 8" or 12" long, both single and double, to carry one or two pipes of any size up to 1 1/4". Made to mount on any pipe from 3/4" to 2". In ordering specify size of pipe post upon which brackets are to be clamped, the length desired, and whether single or double style.

Bench Brackets

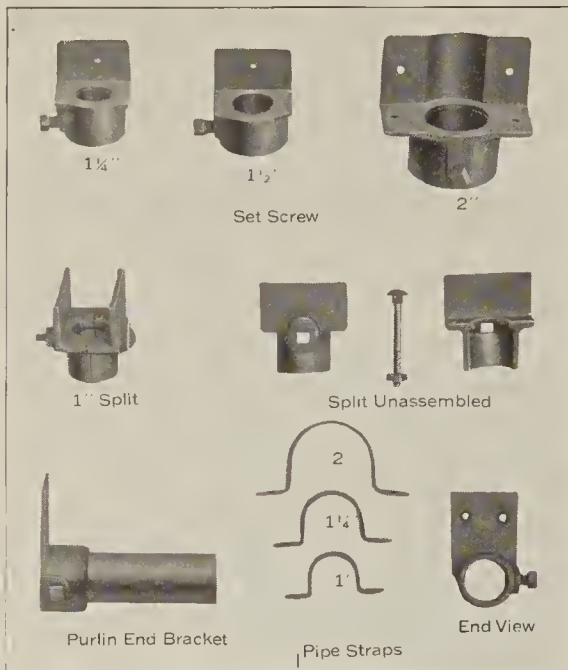
Nothing better than our steel brackets for keeping face boards in line. For 8" and 6" face boards. Black or Galvanized. Also made in angle pattern to fasten to bottom boards.



Shelf Brackets for Pots and Plant Boxes

Just the thing when crowded for room. Brackets 8 inch and 12 inch. Clamps from 3/4 inch to 2 inch pipe. Plant Boxes standard sizes or special made to order.

All orders filled promptly. Shipments made direct from our large stock of Stearns Ventilating Machines and Greenhouse Fittings.

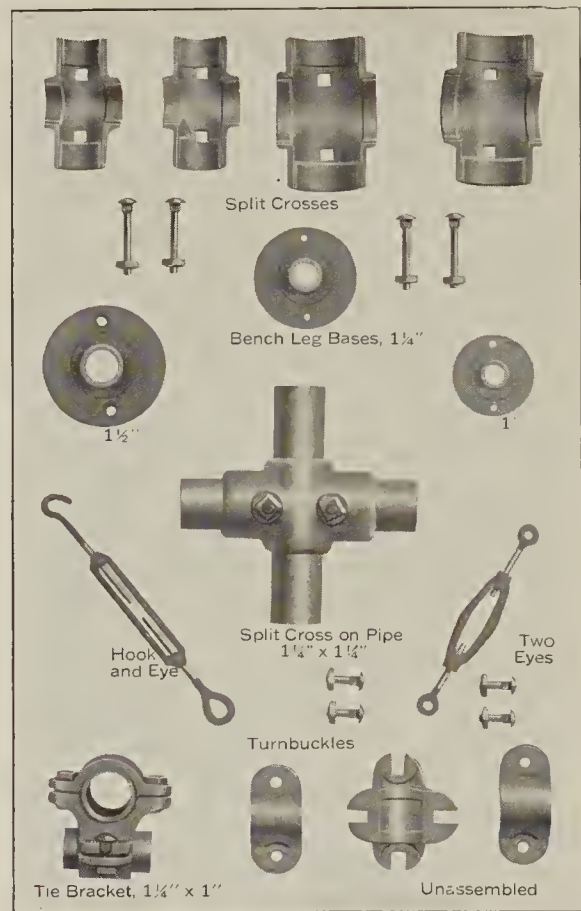


Ridge and Purlin Brackets

Made of malleable iron. Strongly constructed and easy to install. The extra strength built into these pieces will make them last a lifetime. Ridge brackets in your house are sure, safe and lasting. Furnished to you in either threaded, set-screw or split styles as you prefer. Mention size post when ordering.

Purlin End Brackets — Sturdy, lasting construction. Furnished for either 1-inch or 1 1/4-inch pipe.

Galvanized Pipe Straps — Pipe Straps are of reinforced style for greatest strength. For every size of pipe — 3/4-inch to 2 inches.



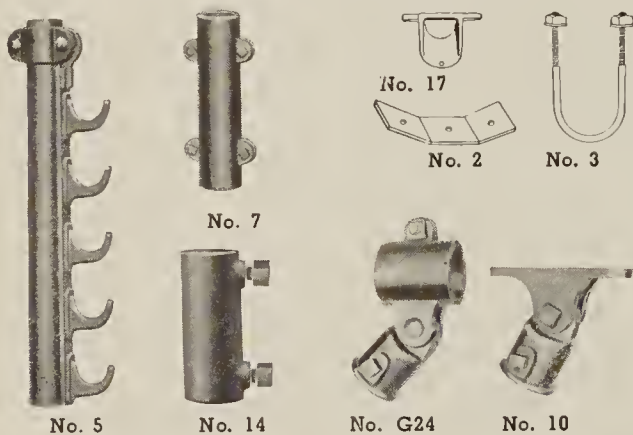
Split Crosses

All standard sizes furnished in malleable iron. Some sizes supplied in either malleable or grey iron. Heavy, solid construction. Furnished in any size from 1-inch to 2 inches and in various combinations. In ordering state both dimensions wanted.

Bench Leg Bases — Furnished in any desired size, in plain or threaded styles.

Turnbuckles — In either style, hook and eye, or two eyes. In either galvanized or japanned finishes.

Tie Brackets — Ties houses together firmly. Makes a solid, rigid construction. Heavily built to give long, secure service. Made in all sizes from 1 inch to 2 inches.



No. 5 — New style malleable pipe carrier. Made of heavy bar iron with unbreakable malleable hooks. (Furnished for wood posts, too.)

No. 7 — Special split fittings for gutters and purlin posts. Also adds years of service by reinforcing posts that rust out near the ground.

No. 14 — Solid shaft couplings for 1 1/8 inch and 3/4 inch shafting.

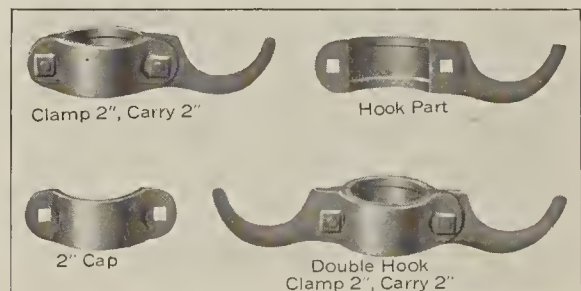
No. 17 — Roof bar socket — prevents splitting and supports the end roof bar at gutter. Rust proof in Galvanized or Udylyte finish.

No. 2 — Ridge and roof bar ties — extra strong steel brackets. 3/16 inch x 4 1/2 inch with three screw holes. Rust proof finish.

No. 3 — U bolts for fastening wood blocks to pipe posts. Complete with two washers and two nuts. Long threads. Sizes 3/8 inch by 5 inch for 2 inch pipe.

No. G24 — Gable end brace — Made of malleable iron. Adjustable to any angle, for 1 inch or 1 1/4 inch pipe.

No. 10 — Wood ridge brace fittings — strong and durable. Adjustable thimble permits any degree of angle desired.

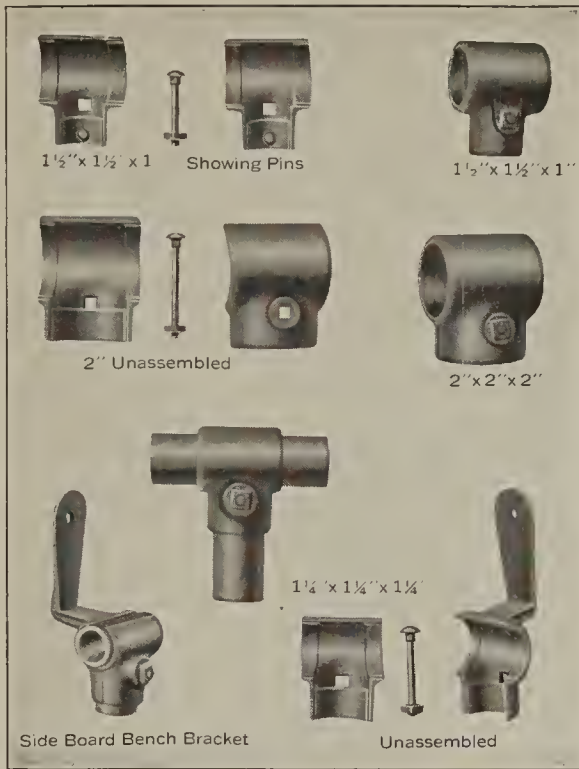


Pipe Carriers

Built heavy and strong to give the long service that you desire. Single and double style carriers in all sizes. Also multiple pipe carriers to clamp on any size pipe. (Pipe size is designated by inside measurement.)

When ordering pipe carriers specify style wanted, size of pipe post, and size of pipe to be carried. Furnished in malleable iron.

Wood Pipe Carriers — (Not shown.) Can be used on walls, sides of building or wooden posts. Made to carry one, two, three and four lines of pipe. Easily attached with screws or nails. Specify style and size of pipe to be carried, when ordering.

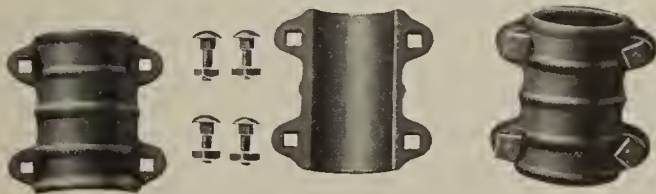


Split Tees

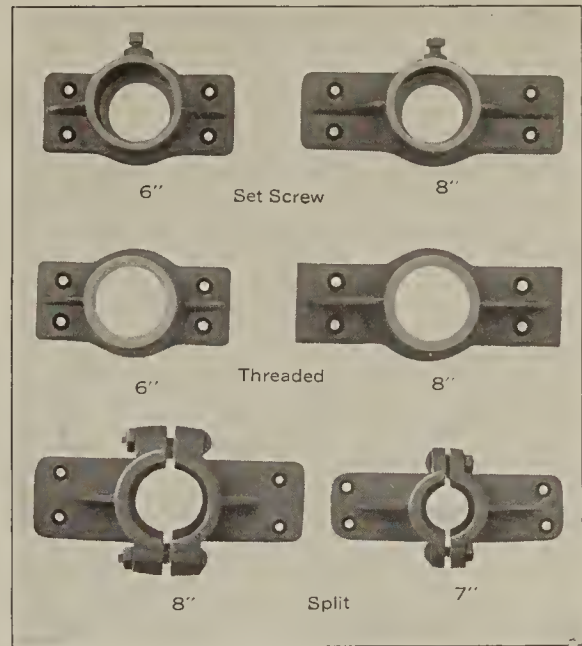
Strong, well-made split tees for every need. In all sizes from 1/2 inch to 2 inches and in every combination of these sizes, with or without dowel pins. Note in the above illustration the inside reinforcing of these tees which bring you better, longer, care-free service. All standard sizes furnished in malleable iron.

Side Board Bench Brackets — Made extra strong where extra strength is needed. These handy fittings give you the extra supports so much desired in up-to-date bench construction.

Leak Repair Clamp



A quick, secure way to stop pipe leaks. Special reinforced construction and four bolts make a strong, permanent repair. Furnished in sizes to fit any pipe from 1 inch to 2 1/2 inches with sufficient room for packing inside.



Gutter Brackets

Only the highest quality materials and workmanship are used in producing these fine pieces. Note the sturdy construction. There's a lifetime of trouble-free service in these unusually well-made fittings. Made in three different styles, set-screw, threaded and split.

Made in 6", 7" and 8" lengths to fit any size pipe. In ordering, be sure to specify style, size of post and length of bracket desired.

Malleable Split Clamp Couplings



Join your pipe with these strong, six-bolt couplings. Plenty of strength — plenty of grip. With these couplings, joints are practically as firm as solid pipe. Comes complete with bolts. Of plain type and requires no drilling of pipe for pins.



PLAIN HANGERS

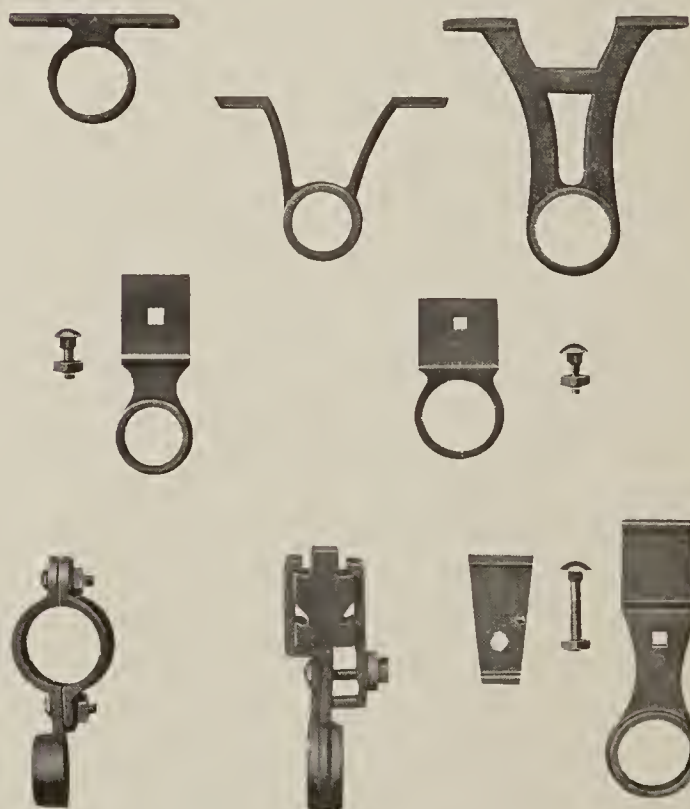
Plain Hangers are sturdily made of choicest materials. Furnished in any desired length and in a style to fit any rafter, whether wood, steel or pipe. Be sure to specify the lengths and the style wanted as well as size shafting when ordering. The same care and attention is given the manufacture of these hangers that is so outstandingly evident in our entire line.

ROLLER HANGERS

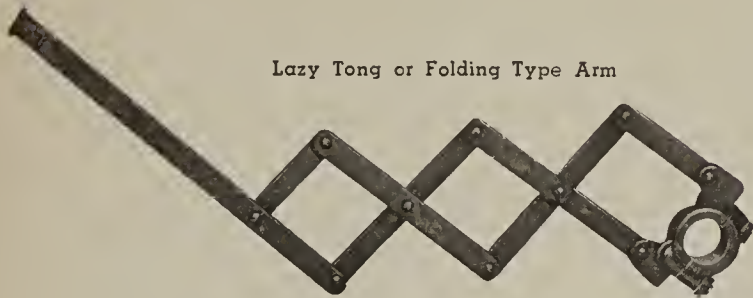
For rigid support and easy operation of shafting. Made extra strong and can be furnished any length for either 1 1/4-inch or 1-inch pipe shafting. Made to fit wood, iron or pipe rafters.

Three brass rollers in each hanger give rigidity to shaft yet reduce friction to a minimum.

Please note the special split hanger for replacements of accidental breakage, or for use when additional hangers are desired where shafting is already installed. Easily placed in operation.



Lazy Tong or Folding Type Arm



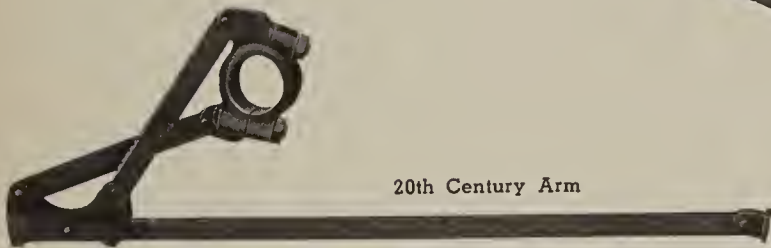
Straight Rack and Pinion Arm



Light Elbow Arm



20th Century Arm



Curved Rack and Pinion Arm



Heavy Elbow Arm

Arms

Lazy Tong Arm — Has the advantage of folding out of the way with practically no projection. Fine for side ventilation where the walk is narrow and for top ventilation in a low house.

Rack and Pinion Arms — Either straight or curved racks. Heavy construction throughout. Racks and pinions always fit and will wear well. Made to stand up under the hard usage they receive. Rollers eliminate all friction in movement of rack.

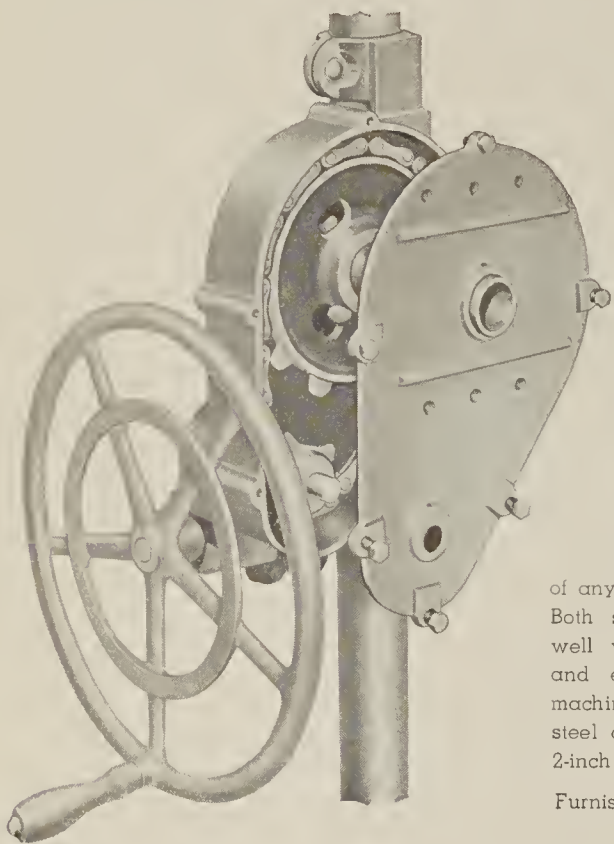
Elbow Arms — Easily installed, smooth acting and will give long satisfactory service. You will greatly profit by the extra wearing qualities built into these arms.

The Twentieth Century Arm — Known everywhere for its unusual durability and dependable service. Most effectively employs the patented "pull and push" principle. The most popular arm in every section of the country.

All arms can be furnished in any length and for any size shaft — Give details when ordering.

SIDE MACHINES FOR EVERY NEED

SMALL SIZE
LARGE SIZE

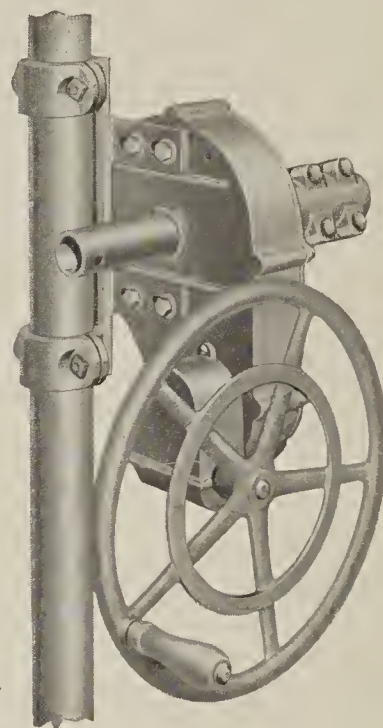


The sturdy, dependable construction of our side machines makes them an outstanding value. All working parts are encased — gives absolute protection against grit or dirt — adding years of satisfactory, care-free service to the machine. Pleasing, compact, balanced construction — quick, easy installation.

The small type side machine takes care of runs of 100 feet to 125 feet. The large size is capable of caring for runs of any feasible length.

Both small and large side machines work well with either Lazytong or folding arms and elbow types. Mounting brackets for machines are made to install on wood, steel or standard pipe posts of 1½-inch and 2-inch sizes.

Furnished for either 1¼" or 1" shafting pipe.



Roof Ventilating Machine

Complete Without Post or Bottom Bracket

Quickly, easily installed to save you time — will increase your output because it gives you complete control of ventilation in your house at all times. Made in Senior and Junior models.

The Senior Type is capable of handling runs of 150 feet or more with remarkable ease and safety. It is not equalled by any other machine on the market in its price class. Works equally well with either 20th Century or elbow type arms. Equipped with 12-inch sprocket wheel for easy, powerful operation.

The Junior Type — Ideal for quick operation of short runs of ventilation of 50 feet to 75 feet. Identical construction of the Senior type described above with exception that it is equipped with 8-inch sprocket wheel at top.

Both models manufactured for either 1¼" or 1" shafting pipe. Prices for Junior or Senior models: Complete with or without post or bottom bracket.



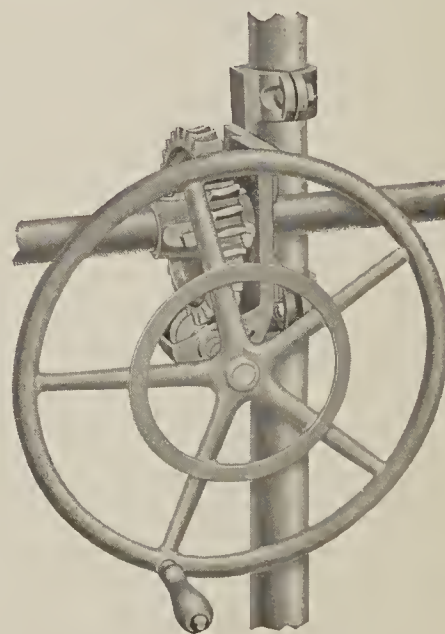
Machine for Side Ventilation

Complete With Hand Wheel

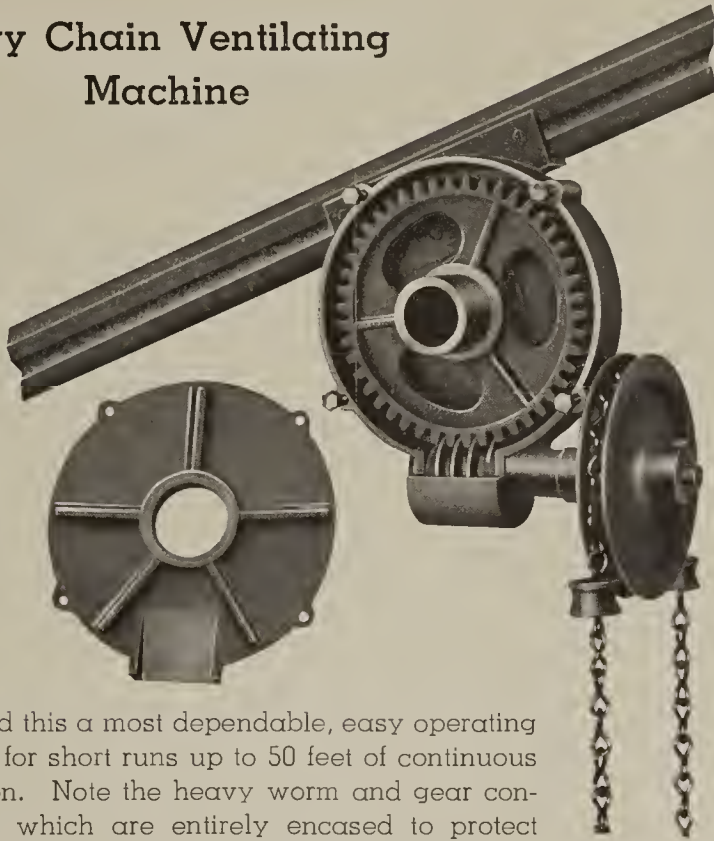
Developed for rapid, convenient operation of short side runs, but sufficiently sturdy to handle runs of considerable length. Heavy, durable construction to give unusual service under all conditions. Particularly serviceable when used with elbow or 20th Century type arms on shaft. Its special construction makes rack and pinion arms work equally well.

Furnished to operate on either 1-inch or 1¼-inch shafting. Quickly and easily installs on wood or pipe posts.

Complete with hand wheel,



Heavy Chain Ventilating Machine



You'll find this a most dependable, easy operating machine for short runs up to 50 feet of continuous ventilation. Note the heavy worm and gear construction, which are entirely encased to protect them from dust and dirt. Gears work in oil.

This machine may be operated with a jack chain as here shown or it may be used with an extension shaft and the universal joint shown at right. It is ideal for most conservatories. Furnished for either 1 1/4" or 1" shafting pipe.

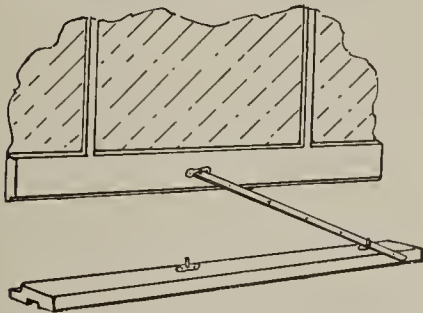
Universal Joint



For greenhouses or conservatories where the hand wheel must be located near the side of house for convenient operation.

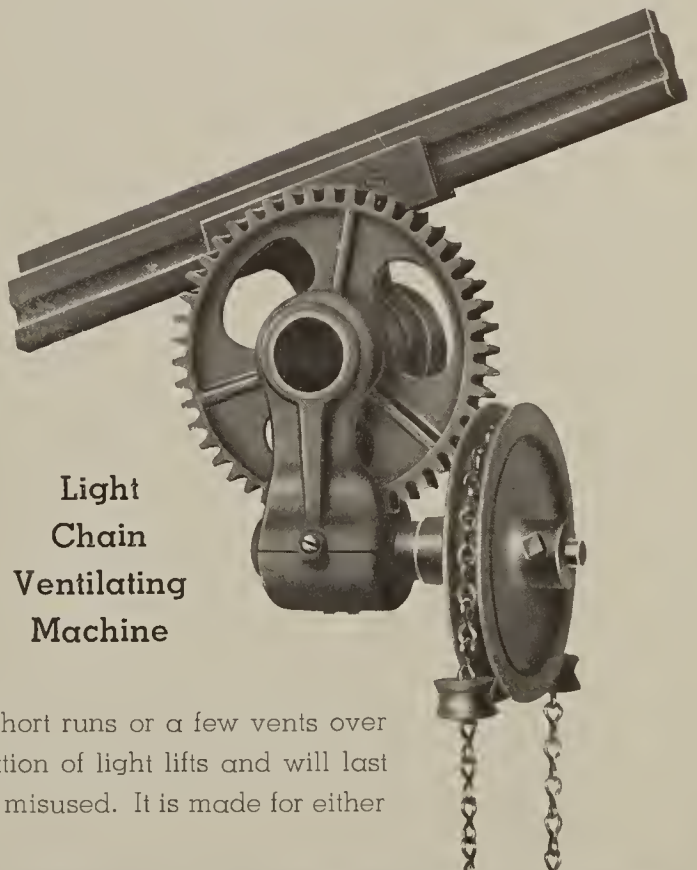
Can be fitted to any type of ventilating machine. It comes arranged with support bracket for wood or steel rafter. State on order the type of rafter used in your house.

Galvanized Push Rods



For operating a single sash. A Flat Steel Rod, having holes punched at intervals. Holes fit over a round steel pin which is attached to Sill.

Holds sash open at different angles. An extra pin is attached to Sill, so that when sash is closed, the holes in the flat rod fit over both pins and holds sash tightly closed.

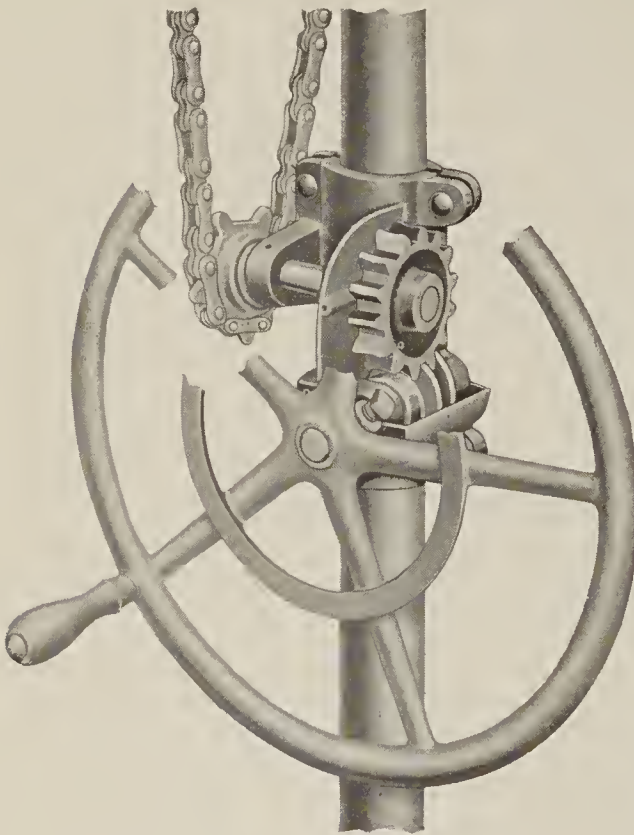


Light Chain Ventilating Machine

A light fast machine for raising short runs or a few vents over steam pipes. Designed for operation of light lifts and will last a lifetime when not overloaded or misused. It is made for either 1 1/4- or 1-inch pipe shafting.

HEAVY DUTY LIFTER

Complete Without Post or Bottom Bracket



Cut-away view to show the sturdy worm and gear construction. This machine gives you long, continuous, trouble-free service and is made of the choicest materials and constructed by expert mechanics, assures you the best of service and the greatest returns from your investment.

A most powerful, rugged machine. Easily handles the longest practical runs. Made in both high and low gear.

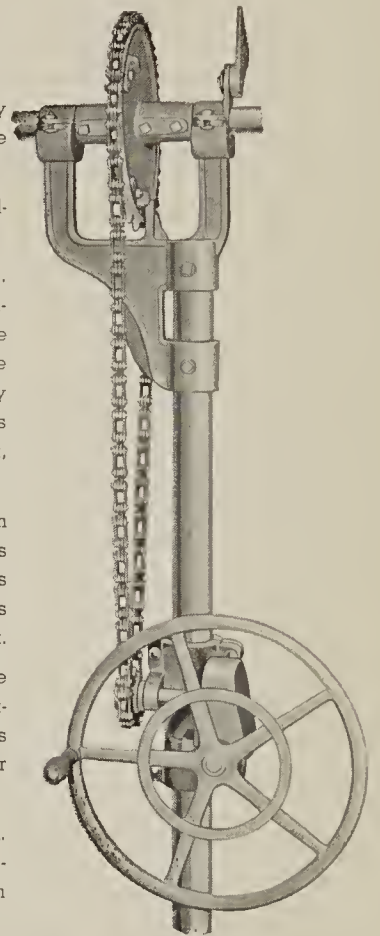
The high-speed type will care for all modern length runs.

This machine has proven its superiority. First placed on the market in 1885. Constant improvements and the unusual service that it delivered has kept it a leader. Since first introduced it has been preferred by most of the leading florists and growers throughout the country. It is quiet, efficient, strong, and easy to operate.

CONSTRUCTION: Worm and worm wheel with strong steel chain transmits power to shaft. Positive automatic stops on large chain wheel at top prevents damage to ventilators or equipment.

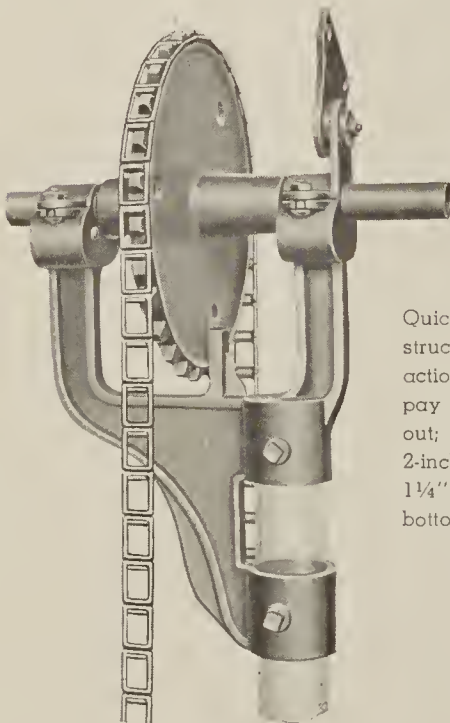
Roller shaft bearings packed in grease insure easy turning, and proper lubrication. Removable bearing caps allow this portion of upper unit to be installed after shafting is put into place.

Installs on 2-inch standard pipe post. Adapted to either 1 1/4-inch or 1-inch shafting pipe with or without post or bottom bracket.



RACK AND PINION MACHINE

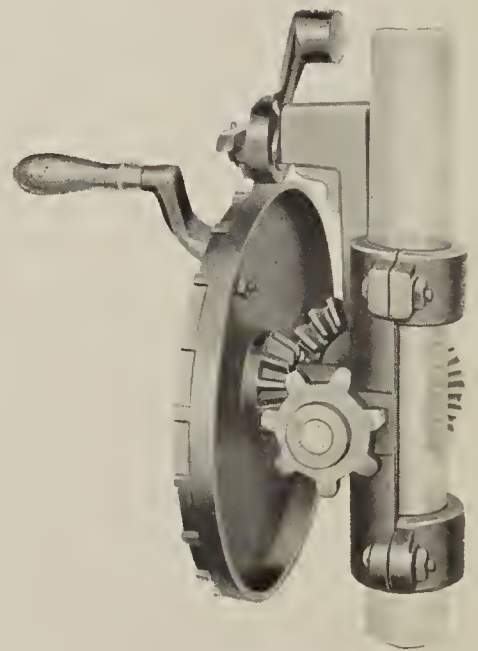
Complete Without Post or Bottom Bracket



Top Unit

Because of its faultless, dependable construction our Rack and Pinion Ventilating apparatus is the prevailing type in many sections. It is absolutely the best Rack and Pinion outfit on the market. It is unexcelled where that type of machine is desired.

Quick, easy operation, and so sturdy of construction that it will last a lifetime. Positive action, instant control and real performance pay big dividends. Heavily constructed throughout; equipped with malleable chain; installs on 2-inch standard pipe post. Arranged for either 1 1/4" or 1" shafting pipe with or without post or bottom bracket.

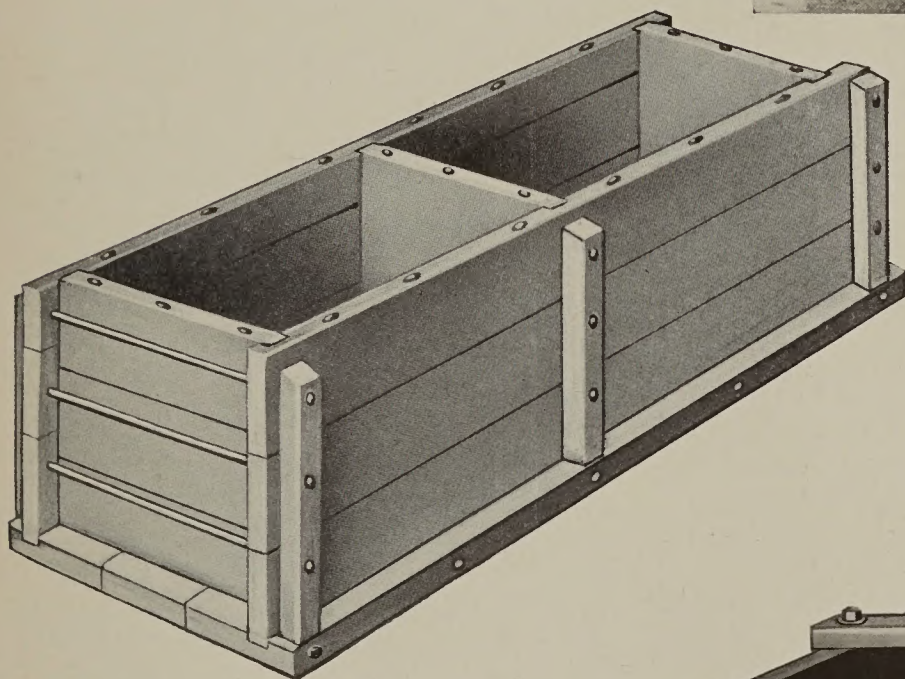
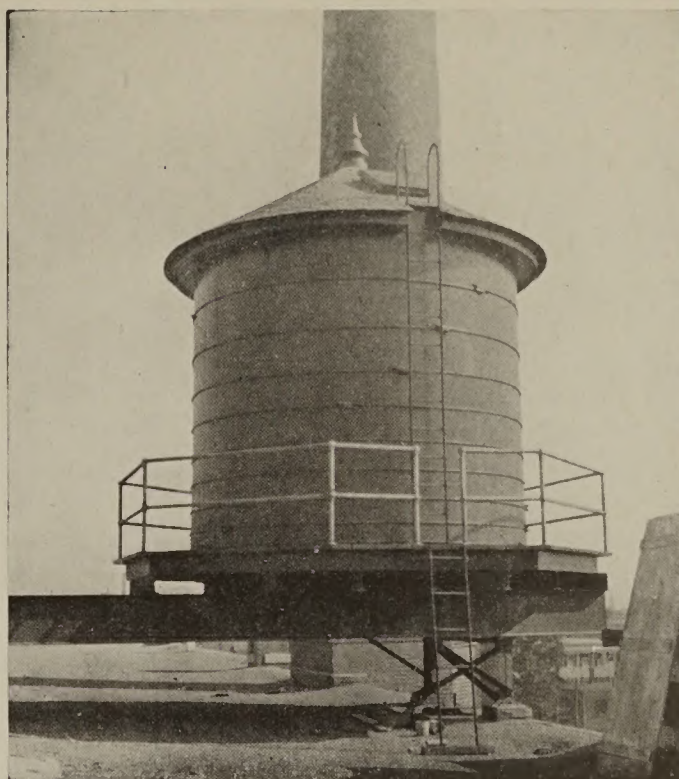


Bottom Unit

STEARNS TANKS

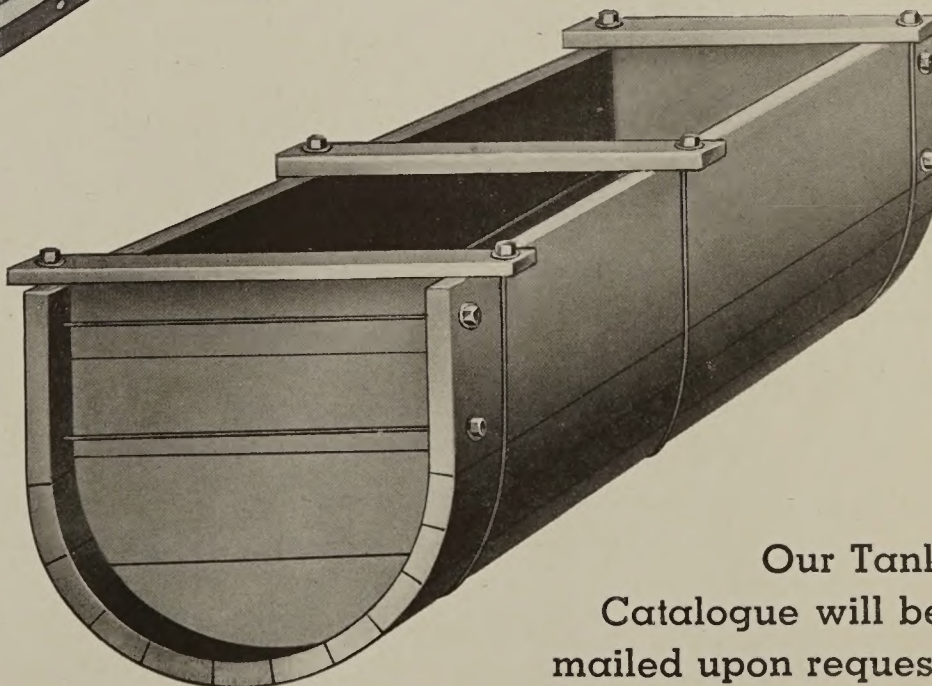
Fifteen Thousand Gallon Cypress
Roof Sprinkler Tank — at right.

We specialize in the manufacture
and erection of any style or size of
tanks. Using any kind of wood de-
sired by customers.



At left — Our Regular Box Tank.
We make these with any num-
ber of partitions.

Below — Vegetable Wash and
Spray Tank with or without
cover.



Where required, we can furnish
Lead Lined, Rubber Lined, Asphalt
Lined, and Monel Lined Tanks.

Our Engineering Department is at
your service and will advise you
concerning tanks for all purposes.

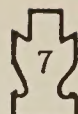
STEARNS TANKS

Neponset, Boston, Mass.

Our Tank
Catalogue will be
mailed upon request



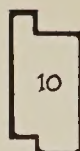
1
SILL
1 1/4 x 2 1/4



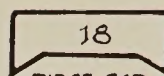
7
ROOF BAR
1 3/8 x 2 1/4



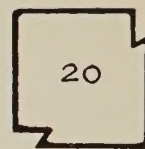
8
GABLE BAR
1 3/8 x 1 3/4



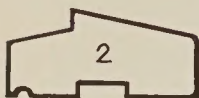
10
TOP RAIL OF
SIDE SASH
1 3/8 x 2 3/4 - ALSO 1 3/4 THICK



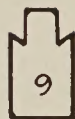
18
RIDGE CAP
1 3/8 x 3



20
CORNER POST
2 3/4 x 2 3/4



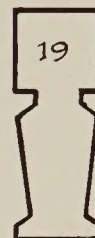
2
SILL
1 3/4 x 3 3/4



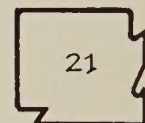
9
MUNTIN
1 3/8 x 2 1/4



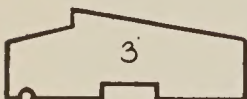
11
MUNTIN OF SIDE SASH
1 3/8 x 1 3/8 - ALSO 1 3/4 THICK



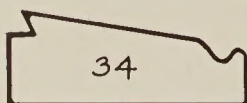
19
RIDGE FOR 1 3/8 SASH
1 3/8 x 4 5/8



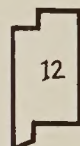
21
END BAR
2 3/8 x 2 3/4



3
SILL
1 3/4 x 4 3/4



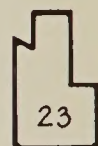
34
DOOR HEADER
1 3/4 x 4 3/4



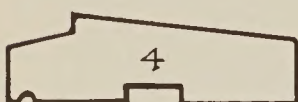
12
BOTTOM RAIL OF SIDE SASH
1 3/8 x 2 3/4 - ALSO 1 3/4 THICK



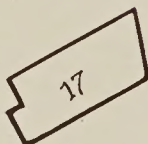
22
RIDGE FOR 1 3/8 SASH
1 3/8 x 5 3/8



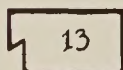
23
STUD
1 3/4 x 2 3/8



4
SILL
1 3/4 x 5 3/4



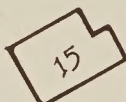
17
TOP RAIL OF
ROOF SASH
1 3/8 x 3 3/8 - ALSO
1 3/4 THICK



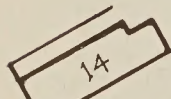
13
SIDE RAIL OF
SIDE SASH
1 3/8 x 2 1/4 - ALSO 1 3/4 THICK



16
MUNTIN OF
ROOF SASH
1 3/8 x 1 3/8 - ALSO
1 3/4 THICK



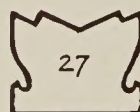
15
SIDE RAIL OF
ROOF SASH
1 3/8 x 2 - ALSO
1 3/4 THICK



14
BOTTOM RAIL
OF ROOF SASH
1 x 3 - ALSO 1 3/8 THICK



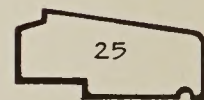
5
HEADER OR SEAT STRIP
1 3/8 x 2 1/4



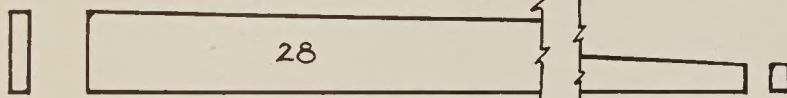
27
VALLEY RAFTER
2 1/8 x 2 3/8



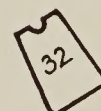
26
HIP RAFTER
1 3/4 x 2 3/8



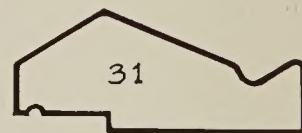
25
TRANSOM BAR
1 3/4 x 3 3/4



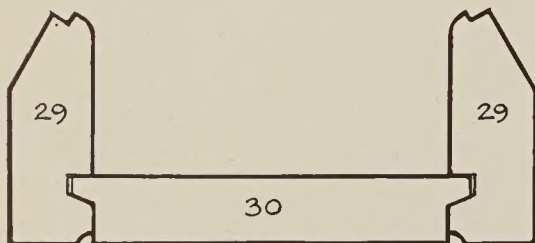
28
WEATHER STRIP
3/8 x 1 3/4 - 30" LONG



32
PLATE HEADER
1 3/8 x 1 3/4



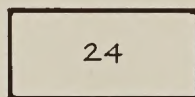
31
EAVE PLATE OR GUTTER
2 3/8 x 5 3/8



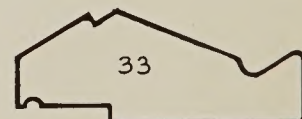
29
GUTTER BOTTOM
1 3/8 x 7 3/8



6
DOOR STOP
1/2 x 1 3/4



24
DOOR JAMB
1 3/4 x 3 3/8



33
EAVE PLATE OR GUTTER
2 1/4 x 5 3/8

STEARNS GREENHOUSE STANDARD WOOD PARTS

NEPONSET — — —

— — — MASS

